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COSTA RICAN

AGARICACEAE

by

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Carroll W. Dodge

The first collection of Costa Rican Agaricaceae of which records have survived, was that of Anders S. Oersted who visited Costa Rica, Nicaragua and the Virgin Islands in 1846-1848.*

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Oersted, Anders S. 1851. En reise i Guanacaste. Tidskr. f. populaer Naturvidenskab 1:21-35. 1 map. 1851.

-----. 1851. Naturens Physiognomie i Central America. Ibid. 1:255-283.

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Upon his return to Denmark, he apparently turned over his collections and a duplicate set of water-color paintings to Elias Fries for naming, since the form the greater part of the Agaricaceae treated in his "Novae Symbolae Mycologicae published in 1851. No specimens have survived at Uppsala, although Fries mentions alcoholic material in alcohol. The collection of drawings, mostly on sheets x cm, usually with Agaricus and a number written across the top in what may be Oersted's handwriting. The number corresponds to that cited by Fries. Below the drawing, the name given by Fries appears, usually in a handwriting apparently that of Fries in his later years. At the bottom of the sheets are the data: Costa Rica. A.S.Oersted in the handwriting of T. M. Fries. This latter was probably added when the collection was tistributed in the general Friesian collection of drawings which were arranged by genera in portfolios in the early 1880's. Since many of the species cited are not from Costa Rica, the data given in the Novae Symbolae should be considered correct and not the locality given on the sheet. All of the species but one in which Fries mentions a drawing are present, along wiht some drawings of some fungi which are not determinable in the absence of specimens.

TROPICAL AMER ICAN AGARICACEAE

Hymenium plicate, folds obtuse	
Spores green, stipe central	Chlorophyllum viride (Pat)Murr.
Spores hyaline or ochraceous	
Hymenophore leather y, reviving	Xerotus Fr. split as follows
Stipe lateral or wanting	Plicatura
Lamellae white, spores ovoid	P. guadelupensis (Pat.)Murr.
Lamellae fuscous, spores ovoid	P. Mauryi (Pat.)
Lamellae brick-red, spores spher ical	P. latericia (B.&C.) Murr.
Stipe central, lamellae brownish	Xerotinus martinicensis (Pat.)
Hymenophore woody, applanate	Neurophyllum ochraceum Pat.
Hymenophore fleshy	
Pileus thin,membranous,infundibuliform	Trogia ciner ea Pat.
Pileus thick, fleshy, terricole	Cantharellus
Pileus convex, orange buff, gills orange	C. Sept. 11
Pileus plane	
Gills warm buff, pileus avellaneous	C. July 7
Gills luteous or paler,pileus	C. cibarius
Pileus infundibuliform	
Gills orange buff	C. 5132
Gills grayish fuscous, turbinate	C. mexicanus
Gills clay color,stipe cartilaginous tough, per haps is Lentinus	C. Aug. 27
Hymenium with well developed gills	
Spores white	
Hymenophore tough to woody	
Lamellae split longitudinally	Schizophyllum
Margin entire or somewhat lobes, deeply tomentose	S. commune
Margin split halfway to attachment, lobes soon nude	S. radiatum Fr.
Lamellae not slplitting longitudinally	
Stipe lateral or wanting, pileus irregular	
Pileus sessile, resupinate when young	
Context homogeneous	
Pileus membranous	Pleurotopsis
Pileus pale brownish,5-10mm., decorated with long fibers	P. asperifolia
P ileus white or whitish	
Pileus 2-6mm,surface pruinose floccose	P.liliputiana 7301,7304,7260
Pileus not more than 2mm	
Surface floccose	P. niduliformis
Surface pruinose to glabrous	
Hymenophores on arachnoid mycelium	P. arachnoidea
Not as above	P. calospora
Pileus coriaceous	Scytinotus
Pileus & gills white or yellowish	S. distantifolius
Pileus & gills isabelline	S. concolor
Pileus & gills blood-red	S. haematodes
Context with upper layer gelified	Pleurotus sec. Resupinatus
Pileus 1.5-5cm,gills white	
Surface white,floccose fibrillose	P. cubensis
Surface warm buff to light buff, very gelified,gills very narrow and close	P. July 14
Pileus grayish,smooky,pruinose, gills distant	P. subbarbatulus

Pileus 4-8 mm
Gills white, pileus black, campanulate — P. orizabensis
Gills and pileus blackish brown, flabelliform — P. subbarbatus
Pileus stipitate or dimidiate, not resupinate when young
Pileus membranous, stipe tubular — Marasmiellus
Pileus 2-3mm — M. inconspicuus, 7298
Pileus 10mm or more in diameter
Pileus light brown, glabrous — M. juniperinus
Pileus purple, tomentose — M. purpureus
Pileus pale to light ochraceous salmon, velvety — M. 4658
Pileus fleshy tought to coriaceous, stipe solid when present — Panellus
Gills rather distant and broad — P. eugrammus
Gills ver y crowded and narrow
Pileus avellaneous — P. jalapensis
Pileus white or yellowish
Gills dichotomous, edges obtuse — P. cantharelloides
Gills not dichotomous, edges thin
Stipe tomentose, distinct — P. subcantharelloides
Stipe glabrous, usually only a tubercle — P. flabellatus
Stipe central to slightly excentric, pileus regular
Stipe tubular, slender with cartilaginous cortex
Pileus somewhat gelified, stipe horny — Heliomyces
Gills few, distant
Terrestrial; gills decurrent — H. terrestris
Growing on wood
Pileus white or pale, not darkening ondrying
Pileus less than 1cm; gills decurrent — H. translucens
Pileus 1-2cm.; gills adnate — H. striatus
Pileus some shade of avellaneous or pale bay or becoming so on drying
Pileus 2cm. or less — H. subavellaneous
Pileus 3-6 cm.
Pileus deeply umbilicate to infundibuliform — H. subspodoides 7296
Pileus plane or slightly depressed — H. hondurensis
H. crenulatus
Pileus plae or tinged yellow when dry — H. Peckii
Pileus latericious when dry — H. rubritinctus
Gills numerous, crowded, growing on wood
Hymenophore solitary — H. angustifolius
Hymenophores cespitose
Pileus umbilicate, gills interveined — H. multifolius
Pileus umbonate, gills not interveined — H. foetens
Pileus membranous to somewhat fleshy
Pileus glabrous or nearly so
Stipe compound or branched — Polymarasmius
Pileus 6mm — P. multiceps
Pileus 2mm in diameter
Surface white, bay on umbo — P. submulticeps
Surface bay throughout — P. sarmentosus
Stipe simple, unbranched — Marasmius

Pileus membranous to somewhat fleshy, stipe simple-Marasmius

- Pileus minute, 1-3 mm. broad (reaching 4mm. in M. Hiorami)
  - Surface of pileus white or whitish, rarely darker on the disk.
    - Disk blackish and papillate — M. Peckii.
    - Disk white or pallid.
      - Stipe 4-10 mm. long.
        - Pileus 1-2mm. broad.
          - Surface subpellucid, pruinose. — M. petiolorum.
          - Surface opaque, glabrous. — M. Marbleae.
        - Pileus 2-3mm. broad.
          - Surface subtranslucent, glabrous. — M. subtenerrimus.
          - Surface opaque, pulverulent. — M. bermudensis.
      - Stipe 10-20mm. long.
        - Pileus umbilicate
          - Stipe pallid, 1-1.5cm. long. — M. theobromicola.
          - Stipe fulvous, 2-5 cm. or more long. — M. chrysochaetes.
        - Pileus not umbilicate.
          - Stipe pallid throughout. — M. proletarius.
          - Stipe pale-yellow below. — M. inaequilis.
  - Surface of pileus pale-yellow.
    - Lamellae adnate; pileus 3 mm. broad. — M. subglobosus.
    - Lamellae decurrent; pileus 1 mm. broad — M. flavellus.
  - Surface of pileus brownish-cinnamon; pileus convex; lamellae distant, pallid; stipe 2 mm. long. — M. nanus.
  - Surface of pileus umbrinous; pileus hemispheric; lamellae few, palid. — M. guyanensis. 7244
  - Surface of pileus bay, blackish and papillate at the center; pileus 2-4 mm. broad. — M. Hiorami.
- Pileus small, 3-10 mm. broad
  - Surface of pileus white or pallid, rarely slightly darker at the center.
    - Stipe white or pallid throughout.
      - Stipe glabrous.
        - Lamellae free; stipe 10-12 mm. long. — M. stylobates.
        - Lamellae decurrent; stipe 1.5-4 cm. long.
          - Stipe 1.5-2 cm. long. — M. praedecurrens.
          - Stipe 4 cm. long. — M. niveicolor.
      - Stipe minutely pruinose or floccose, sometimes becoming subglabrous. — M. setulosipes.
        - Pileus scarcely 5 mm. broad, not striate; lamellae crowded. — M. setulosipes.
        - Pileus 6-10 mm. broad, striate; lamellae distant. — M. synodicus.
    - Stipe brownish or blackish below.
      - Stipe 1 cm. or less long.
        - Lamellae adnate; pileus usually darker on the disk. — M. Earlei.
        - Lamellae decurrent; pileus not darker on the disk. — M. pruinosulus.
      - Stipe 2-3cm. long.; lamellae adnate.
        - Pileus umbilicate, unicolorous. — M. praetortipes.
        - Pileus umbonate, slightly darker at the center the center. — M. hondurensis.

Stipe 5-8 cm. long; lamellae free;plant terrestrial — M. glebigenus.

Surface of pileus pale-avellaneous or pale isabelline,fading to white on drying.

Stipe 1 cm. long. — M. raminis.

Stipe 4cm. long. — M. subrotula.7310

Surface of pileus ochraceous,darker on the disk;pileus 2-4 mm.broad,stipe blackish, 1 cm. long. — M. Crescentiae.

Surface of pileus fulvous (tawny)

Pileus 3-4 mm. broad;densely cespitose. — M. aciculaeformis

Pileus 6-10 mm. broad.

Stipe pellucid. — M. hinnuleus.

Stipe fulvous to brown.

Pileus 6 mm. broad; lamellae crowded. — M. personatus.

Pileus 10 mm. broad; lamellae distant. — M. sulcatipes.

Stipe blackish — M. rugulosus.

Stipe reddish-brown. — M. musicola.

Surface of pileus avellaneous to umbrinous or brown,often tinged with rose or bay,not fading to white on drying.

Stipe less than 2 cm. long.

Stipe black. — M. picipes.

Stipe not black.

Lamellae cream-colored. — M. Underwoodii.

Lamellae pale-fuscous. — M. tenebrarum,7245

Stipe more than 2 cm. long.

Stipe 2-3cm. long. — M. colimensis.

Stipe 4-6cm. long. — M. soliformis

Surface of pileus blackish-blue-green; pileus 8 mm. broad;stipe 12 mm. long. — M. atroviridis.

Surface of pileus pale-red,fading to isabelline on drying; pileus 5-8 mm. broad;stipe 2-2.5 cm. long — M. pallescens.

Surface of pileus bay.

Pileus 5 mm. broad. — M. jamaicensisis

Pileus 5-10 mm. broad.

Lamellae pallid;stipe glabrous.

Lamellae adnexed;stipe 0.5-1 mm..thick — M. Wilsonii.

Lamellae adnate to a slight collar;stipe 0.5 mm.thick. — M. paucifolia.

Lamellae fulvous;stipe pubescent. — M. portoricensis.

Surface of pileus dark-purple;lamellae few, dark purple on edges when young. — M. atropurpurens.

Pileus medium to large, more than 1 cm. broad.

Surface of pileus mostly white or pallid, sometimes darker at the center.

Pileus becoming eccentric;stipe usually rather short and curved.

Stipe white above,reddish-brown below. — M. stenophyllus.

Stipe rosy-isabelline throughout.

Pileus 1-1.5 cm. broad. — M. troyanus.

Pileus 2 cm. broad. — M. subplexifolius

Pileus never eccentric;stipe long,erect.

Pileus plane,umbonate,12-18 mm. broad; lamellae distant.

Stipe 0.5 mm. thick — M. albofuscus.

Stipe 1-1.5 mm. thick — M. cubensis.

Pileus convex to subexpanded,not umbonate, 0.5-2 cm. broad;lamellae subcrowded. M. hinnuleiformis
Pileus conspicously depressed,4-6cm.broad. M. clitocybiformis
Surface of pileus white to plumbeous,umbilicate,12 mm.broad;stipe twisted,6-8 cm.long. M. tortipes
Surface of pileus pale-green. M. viridifuscus.
Surface of pileus isabelline or fulvous,sometimes with grayish tints.
Pileus 1-3 cm. broad,rarely larger in M.montanus.
Pileus convex,rarely fully expanding,umbonate or gibbous.
Stipe 3 cm. long. M. Harrisii.
Stipe 4-8 cm. long.
Pileus gibbous;lamellae crowded.
Stipe grayish-pulverulent. M. cinereialbus.
Stipe glabrous,polished. M.jalapensis.
Pileus prominently umbonate; lamellae not lae not crowded. M. obsoletus,
Pileus plane or depressed,never umbonate.
Stipe glabrous.
Lamellae white. M. putredinis.
Lamellae fulvous. M. coracicolor.
Stipe pruinose,becoming subglabrous at times.
Stipe 5 mm. thick;species terrestrial M. pruinosifolius
Stipe 1-2 mm. thick;species not terrestrial.
Stipe densely velvety-pruinose. M. cervinicolor.
Stipe whitish-pulverulent to subglabrous.
Pileus 7-15 mm. broad, M. bahamensis.
Pileus 2-4 cm. broad.
Pileus plane. M. hemileucus.
Pileus umbilicate or depressed. M. montanus.
Pileus 4-7 cm. broad.
Lamellae free; stipe 2.5 cm. long M. fibrosipes.
Lamellae adnate;stipe 5cm. long. M.subpruinosus.
Surface of pileus bay, chestnut,reddish,or ferruginous.
Lamellae crowded and connected by conspicuous retculate veins. M. polyporoides.
Lamellae distant, not conspicuously connected by veins.
Pileus ferruginous, 4cm. broad. M. Berteroi. 7302
Pileus bay or chestnut, not more than 2 cm. broad. M. 5028
Stipe pruinous to glabrous,2.5 cm. long. M. badius.
Stipe glabrous and shining from the first, 3-6 cm. long.
Lamellae about 12-16 in number. M. haematocephalus. 7290

Lamellae about 8 in number — M. tageticolor.
Surface of pileus some shade of purple or violet.
Surface pale-purple, fading to whitish onndrying;lamellae decurrent;pileus infundibuliform. — M. puppurascens.
Surface purple or violet,not fading to whitish on drying.
Pileus about 2 cm. broad.
Lamellae pallid. — M. sericipes.
Lamellae blackish-purple. — M. glaucopus.
Pileus 2-6 cm. broad. — M. ionides.
Surface of pileus brown or somewhat blackish.
Surface pale-fuscous;lamellae adnexed; pileus convex — M. coracipes.
Surface brown,rarely tinged with violet.
Stipe less than 1 cm. long. — M. curtipes.
Stipe 2 cm. or more long.
Pileus becoming distinctly depressed;lamellae not crowded.
Lamellae decurrent. — M. cyathiformis.
Lamellae adnate. — M. subcyathiformis.
Pileus convex to plane;lamellae crowded. — M. Johnstonii.

~~Pileus membranous to somewhat fleshy;Pileus glabrous or nearly so; lamellae adnate to a collar;stipe compound.~~

Pileus thin,reviving,conspicuosly decorated with threadlike hairs,scales,or spines; lamellae adnate or adnexed;spores hyaline; veil none;stipe central,slender,tubular. — Crinipellis 287
Pileus 1-2.5 cm. broad. — C. sublivida M.
Pileus less than 1 cm. broad.
Pileus papillate or umbonate.
Pileus fulvous.
Stipe 1-2 cm. — C. stupparia.
Pileus not as above.
Surface villose.
Stipe 4 cm. — C.squamifolia
Surface echinulate — C. eqhinulata

Stipe solid;thick;uniform texture. Veil absent . Hymenophore solitary.or gregarious. Pileus regular. Pileus thin umbilicate. Lamellae decurrent. — Lentinus,
Pileus glabrous
Pileus white or whitish;less than 1 cm. — L. orizabensis.
Pileus isabelline
key faulty
Hymenophore solitary
Spores 7.3 14 μ — L. graminicola. 7312
Hymenophore gregarious
Spores 3.5 # 2.5 — L. subscyphoides. 7236
Pileus fulginous — L. fulgineus.
Pileus reddish-brown
Pileus 1-1.5 cm. — L. scyphoides.

Pileus 6-8cm diameter — Lentinus tubarius
Pileus scaly, imbricate
Pileus 3-5 cm, white or yellowish with concentric pyramidal fascicles — L. pyramidatus
Pileus 5-8cm, white with brown maculiform scales — L. albellus
Pileus velvety, strigose or hispid
Pileus 2-7cm
Stipe glabrous or nearly so — L. crinitus
Stipe velvety or tomentose
Pileus isabelline, stipe usually excentric — L. strigosus
Pileus dark fulvous — L. strigosellus
Pileus pale cinnamon to chestnut brown, stipe slender, concolorous — L. velutinus
Pileus 8-15cm; stipe 1-2.5cm.
Pileus white, spores narrow ellipsoid, 6-8x3-3.5u — L. hirtus
Pileus isabelline, spores oblong ellipsoid or fusiform, 4-5x1.5-2u — L. hirtiformis

See also:
L. chaetoloma and Panus Troglodytes, P. reflexa related to L. crinitus
L. flaccidus, L. fuligineus, L. furfurosus, L. glabratus, L. xylopodius and Panus connatus, related to L. hirtus

Pileus thick, convex; gills adnate — Lentinula detonsa (Fr.)Murr.
Veil present;hymenophores densely cespitose, surface smooth — Lentodiellum concavum (Berk)Murr.

Hymenophore fleshy or membranous
Stipe excentric, lateral or wanting — Pleurotus (segregated
Pileus sessile, often partly resupinate when young see also P. limpidus — Geopetalum
Pileus less than 1cm,rarely more in G.cupulatum
Pileus resupinate
Pileus 1-2mm — G. inconspicuum
Pileus 3-8mm — G. subelatinum
Pileus not normally resupinate
Surface white,gills whitish,pruinose on edges — G. haedinum
Surface pale ochraceous; gills not whitish pruinose on edges — G. copulatum
Pileus more than 1 cm broad surface ferruginous — G. tremelliforme
Surface translucent, glabrous,pileus reniform — G. catephes
Surface milk white
Pubescent, pileus flabelliform — G. subhaedinum
Viscid, thin, pileus dimidiate — G. Siquirres
Surface isabelline, pileus 6x9cm — G. 7647
Surface orient pink, pileus 3 3cm. — G. Cattii
Surface buffy brown or lighter, 11x8cm — G. 5058
Surface salmon buff, pileus 12x20cm, crisped — G. 4806
Surface white to pale fuscous,spongy pubescent to glabrous; pileus flabelliform or spatulate — G. semitectum
Surface sordid grayish olive, spongy tomentose, gills zinc orange to tazny — G. serotinoides, 6746
Surface fuscous,spongy tomentose,gills yellozish — G. flavolanatum
Surface avellaneous,spongy tomentose,3.5cm., gills white — G. Barnstorf,5510, 7317
~~Stipe excentrak or nearly so~~

Pileus stipitate (laterally)	
Gills conspicuously decurrent	Crepidopus
Pileus drying reddish	
Gills crowded, narrow, stipe 2 cm. long	C. 5382
Gills very distant, interveined, stipe very short	C. hemiphlebius
Pileus white or whitish, yellowing on drying	
Pileus 11x14 cm; stipe 2x1cm	
Margin striate, gills narrow	C. 7250, 7726
Margin not striate, gills broad	C. 5369
Pileus 4-6cm broad, stipe 1-5mm	
Gills narrow, crowded, stipe 4-5cm long	C. caveatus
Gills rather broad, subdistant	
Stipe glabrous, 1-2cm long	C. commiscibilis
Stipe tomentose, 2.5-5cm long	C. connatus 7669?
Pileus 2-4cm broad; stipe 4-8mm	C. Eugeniae, 7324, 7289, 7252, 5 coll. Golfo Dulce
Pileus orient pink, 3 cm	C.? Cattii
Gills adnate or sinuate	Microphiale
Surface conspicuously fibrillose	M. fulvifibrillosum
Surface glabrous or pulverulent	
Surface white or nearly so	
Margin striate, pileus 7cm, gills subdistant, broad, stipe 5x10mm	M. 5383
Margin not striate, gills close to crozded	
Pileus 18mm, gills crowded, narrow, stem 12x2mm	M. excavatum
Pileus 4x3.2cm, gills close, broader, stem 35x4mm	M. Carpenteria, 6238
pileus 7x10cm, margin crisped, stipe 7-8x5-6mm	M. 4796
Surface bay	M. badium
Surface pale fuscous, gills narrow	M. brunnescens
Surface drab to cartridge buff	M. 5220
Surface fuscous to blackish, gills broad	M. fuscifrons
Surface Verona brown to cartridge buff, gills Naples yellow	M. 5365
~~Surface~~	
Surface viscid, Dresden brown to cartridge buff	M. viscidus, 7695
Stipe central	
Stipe slender, tubular with cartilaginous cortex	
Margin at first straight and appressed to stipe	
Pileus plicate, ~~skis~~splitting down backs of lamellae	Hiatula
Stipe conic, 15mm at base, 4mm above	H. discreta
Stipe equal	
Pileus less than 1 cm broad	H. minima
Pileus 2cm or more broad	
Gills adnexed	
Margin ciliate	H. ciliatulus
Margin crenulate	H. crenulatus
Gills free	
Pileus plane, pale purple	H. purpurascens
Pileus campanulate, reddish brown	H. Benzonii
Pileus even or striate, not splitting down backs of gills	
Pileus umbilicate; gills decurrent	Omphalia
Pileus entirely smoky white, gills very distant	O. distantifolia
Pileus white or whitish, differently colored on disc	
Disc reddish brown; stipe scarcely 1mm diam.	O. convexa
Disc pale yellowish, solitary; stipe 2-3mm	O. petasiformis
Disc subfuscous, densely cespitose, stipe 2-3mm	O. euspeirea
Pileus pale avellaneous, 8mm broad; gregarious	O. subavellanea
Pileus some shade of yellow or orange see next p.	

Pileus some shade of yellow or orange
Hymenophores solitary or gregarious
Pileus lemon-yellow, 5cm. broad, among dead leaves — O. citricolor
Pileus orange yellow, often fading, 2-13mm, among mosses — O. fibula
Pileus stramineous with grayish tint, 12mm. broad — O. myceniformis
Pileus dull rosy-isabelline, 2cm broad — O. cuticolor
Hymenophores cespitose
Pileus pale isabelline; stipe glabrous — O. roriduliformis
Pileus yellowish ferruginous to dull reddish yellow, stipe with brown hairs below — O. campanella
Pileus pale avellaneous, 8mm. broad, gregarious — O. subavellanea
Pileus convex to umbonate
Gills free — New genus July 28
Gills adnate to adnexed — Mycena
Pileus white, whitish or cinereous, sometimes differently colored on the disk
Surface entirely white (see also M. pruinosus (pileus farinose)
Pileus 1-4mm broad
Stipe 4-5mm long — M. Myrciae, 7259
Stipe 1-2.5cm. long
Pileus 2mm, striate — M. 7280
Pileus 2mm, not striate — M. alphitophorus
Pileus 4mm, striate — M. subpulverulentus
Pileus 4mm, not striate — M. 7270
Pileus 1.5-2cm broad — M. trojanus, 7297; 7240, 7649
Surface white with fuscous umbo — M. roridulus, 7319
Surface sinereous with pale avellaneous umbo — M. Margarita
Pileus and gills greenish gray — M. viridigrisea, 7203?
Pileus yellowish avellaneous or brownish
Pileus 4-8mm broad
Stipe 1cm long — M. Siquirres Dec.5 cf.7299
Stipe 2cm long, avellaneous
Pileus solitary or gregarious, striate
Surface pale avellaneous, ashy white on disc — M. cinereiavellaneus
Surface avellaneous with smoky tint, disc concolor — M. fumosiavellaneus
Pileus cespitose, not striate — M. avellaneigriseus
cf. M. 5341 — Stipe 5-7cm long — M. gracillipes
5090
5096 — Pileus about 1cm broad
Surface Naples yellow, umbonate, not striate stipe 2cm
Surface avellaneous, striate — M. argillaceus, 7239
Surface dark brown, not striate — M. pubescens, 71,87
Pileus 1.5-2cm broad
Pale avellaneous or isabelline — M. cinchonensis, 7309 7295, 7655
Sayal brown — M. 5112
Olive brown — M. 5113, 7664
Brussels br own — M. 4656
Pileus 3cm. broad
Avellaneous — M. 5361
Buffy brown shading pale, umbonate — M. 5126
Sayal brown — M. 5127
Tawny to russet — M. 5106

Pileus 5cm, wood brown	M. 5375
Pileus 2.2cm broad, wood brown	M. 5379
Hazel	M. 7660
Pileus lilac or some shade of reddish	
Pileus 5-8mm broad	
Lilac	M. syringeus
Dark testaceous	M. testaceus
Pileus 1-2cm broad, stipe 2-3cm long	
Latericeous, gills testaceous	M. latericius
Chestnut red; gills fazn color	M. corrugatus
Madder brown to Pompeian red	M. 5346
Pileus 2-5cm; stipe 5-8cm; rose lilac	M. purus
Margin at first incurved	
Gills decurrent; pileus umbilicate	Omphalina
Pileus white or whitish	
Pileus under 13mm broad	
Pileus 5mm broad, stipe 6mm long	O. niveicolor, 7193, 7293,7221,7205
Pileus 8-13mm, stipe 1-4cm	
Pileus not umbonate	
Stipe 2cm, pileus 13mm	O. subscyphoides
Stipe 3cm, pileus 10mm	O. Golfo Dulce 7710
Stipe 4cm, pileus 8mm	O. tepeitensis
Pileus umbonate	
Pileus convex with abrupt small umbo	O.cuspidatella
Pileus conic with a long pointed umbo	O. acuminata
Pileus 3cm or more broad	
Pileus convex to umbilicate, gills distant	O. collybiiformis,7644
Pileus infundibuliform; gills crowded	O. jalapensis
Pileus yellow or yellowish	
Pileus infundibuliform	
Pileus 1-1.5cm broad	
Isabelline	O. lenta, 7680,7734
Flavovirens becoming melleous	O. flavella, 7328,726_ 771_
Medal bronze to citrine	O. 7217
Pileus 3-4cm,isabelline may be only large form of O. lenta	O. Sandalo 7712
Pileus 3cm drab, reticulated darker	O. merulioides n.sp.
Pileus convex, 2-3cm broad	
Stipe 1mm in diameter	O. Earlei
Stipe 2-4mm in diameter	O. cremea
Pileus umber (if raw cf. spec. from Castilla Jy23	O. chondripes
Pileus red or reddish	
Pileus 6mm broad, gills distant	O. miniata
Pileus 12mm broad, gills crowded	O. coccinea
Pileus 2.5cm broad	O. carneola
Gills adnate or adnexed	Collybia
Pileus glabrous	
Pileus not viscid	
Pileus entirely white or whitish	
Pileus 1-2cm broad, gills adnexed crowded,narrow	C. muscicola
Pileus 3-8cm broad	
Gills deeply sinuate,narrow, crowded	C. Boryana
Gills adnate, broad	C. albidula
Pileus whitish, differently colored on disc	
Disc pale yellowish; stipe 1.5cm	C. orizabensis

Disc tawny	C. 4427, 7668?
Disc mummy brown	C. Sept. 8
Disc pale olive buff	C. Nevermann
Disc russet; stipe 4cm; gills broad	C. 4810
Disc latericious; stipe 6cm; gills narrow	C. oculatus, 7219?
Pileus ochraceous, isabelline or fulvous [cf also C. dryophila]	
Pileus pale ochraceous, 5-10mm broad	C. marasmiiformis
Pileus pale ochraceous salmon with russet umbo, 3cm broad, margin striate	C. 4810
Pileus dark ochraceous, 1-3cm, margin even	C. domesticus
Pileus isabelline with pale latericious umbo 5cm broad, margin splitting	C. 4996 C. monticola
P ileus ochraceous tawny with cinnamon brown umbo	C. 4996
Pileus antimony yellow with hazel disc, 5cm, margins rugose striate	C. 7281
Pileus fulvous	
Gills white	
Stipe 2-3cm long, pileus becoming fuliginous on drying	C. nigritiformis
Stipe 1cm long; pileus remaining fulvous	C. densifolia
Gills brown	C. fimetarius
Pileus wholly cinnamon rufous with large umbo, gills nearly free	C. Sandalo 7732
Pileus cinnamon rufous, disc chestnut	C. 7253
Pileus russet, 5cm diam	C. 5387
Pileus avellaneous	
Gills white	
Pileus pale avellaneous [tilleul buff?]	C. cinchonensis 7696
Pileus wood brown with fawn disc	C. 7213
Pileus reddish brown	C. subnivulosus
Gills pale murine	C. subavellaneus
Pileus rosy livid, 12mm broad	C. roseilivida
Pileus black or nearly so, at least on drying	
Gills blackening on drying	
	C. nigrita
	C. irrorata
Gills remaining white on drying	C. nigritiformis
Pileus orange, yellowish or brownish	
Pileus convex, umbonate, 2-3.5cm broad	
Umbo large, margin upturned, slightly lacerate, pileus cinnamon	C. 7732
Umbo smaller and les prominent, margin not upturned, striate to sulcate	
Gills narrow, white; stipe 7-8cm long, 1.5-3mm in diam.	
Pileus pale ochraceous salmon, innate fibrillose, gills adnate	C. 7 23
Pileus honey yellow; gills adnexed	C. 7671
Gills medium, distant, tilleul buff	C. 7696
Gills broad, adnate	
Pileus pale ochraceous salmon with russet umbo	C. 4810
Pileus vinaceous fawn, hygrophanous	C. 9 11
Pileus campanulate to subconic, gills adnate	
Gills broad, subdistant, mustard yellow, pileus mummy brown to buckthorn brown, stipe velvety raw umber below to raw siena above; margin striate	C. 8 14
Gills narrow, close; pileus hygrophanous	

Gills narrow, close; pileus hygrophanous
Pileus pinkish buff to mars brozn, gills pinkish cinnamon, stipe white — C. 7 7
Pileus cinnamon brown to ochraceous tawny, gills light ochraceous buff, stipe Hessian brown, lower quarter clothed with whitish tomentum — C. 7 10
Pileus hygr ophanous — Laccaria
Pileus umbonate, light pinkish cinnamon to Sayal brown
Pileus 6cm, stipe 9x0.6cm — L. 7646
Pileus 1.5-1.8cm, stipe 2x0.1cm — L. 6133
Pileus umbilicate
Pileus pinkish buff, 8cm; stipe 10x1cm — L. 6134
Pileus dark livid brown to livid brown, 3cm; stipe 4x0.5cm — L. 5153
Pileus salmon buff, 1cm; stipe 2.5x2-1cm — L. Aug. 7
Pileus expanded to flat or even depressed but not umbonate or umbilicate
Pileus fawn, disc army brown margin, 4cm; stipe white 2x0.25cm — L. 5364
Cinnamon disc, bister margin, 2.3cm; stipe wood brown, 4.5x0.2cm — L. 5155
Pileus deep brown drab, 1.5cm; stipe cinnamon drab, 3x0.25cm — L 5154
Pileus buff pink to vinaceous tawny; 3cm, stipe onionskin pink, 2x0.2cm — L. July 13
Pileus hazel, 0.9cm; stipe light russet vinaceous 2x2x0.2-0.4cm — L. July 16
Pileus viscid — Collybia
Pileus white — C. Sandalo 7716
Pileus tawny or reddish yellow, cespitose — C. velutipes
Pileus chestnut, solitary — C. July 11
Pileus Saccardo's umber — C. 5062
Pileus with hairs or scales
Pileus white with floccose, subseparable pellicle — C. subflavescens
Pileus orange, densely furfuraceous velvety
Margin not striate; gills crowded; stipe 3x0.4cm — C. 5128, cf. Aug. 29
Margin striate; gills distant; stipe 3.5-5x0.2cm — C. chrysopeplus
Pileus ochraceous to yellowish red becoming bay or chestnut, densely tomentose zhen young — C. tenuipes, 7311, 7263, 7238, 7677, 7687
Pileus mahogany red with bay or chestnut umbo — C. 5028
Pileus buckthorn brown on warm buff background — C. Aug. 21
Pileus buffy brown — C. 5368
Pileus black — C. 5131
Cf. 7671, 7690
Stipe stout, fleshy, of uniform texture
Context of vesiculose cells
Very watery or milky juice present — Lactarius
Pileus viscid, milk watery becoming testaceous and blackening — L. july 10
Pileus velvety
Flesh buff yellow on wounding — L. Aug. 7
Flesh buckthorn brown, tawny — L. 4993
Pileus fibrillose scaly, warm sepia — L. July 7
Pileus moist, cinnamon rufous to light ochraceous buff — L. 6129
No watery or milky juice present, usually dry, light — Russula
Pileus rough, fibrillose velvety or floccose, gills close, narroz, taste mild

Pileus rough, fibrillose velvety or floccose, gills close, narrow, taste mild
- Pileus dirty white, 7-8cm, fibrillose; stipe white — R. 5034
- Pileus alizarin pink to pale rose; 3cm, velvety, stipe ~~white becoming light chamois, cottony tomentose~~ warm buff — R. 5247
- Pileus isabelline, 3cm, floccose verrucose; stipe white becoming light chamois, cottony tomentose — R. 5150

Pileus viscid even when old
- Pileus purplish, pellicle separable; spores white; taste mild; stipe white
  - Margin striate; gills broad — R. 5033
  - Margin not striate; gills very narrow — R. 5032
- Pileus cream color with old gold disc; pellicle not separable; stipe white; margin striate sulcate — R. 5148, 5147
- Pileus buckthorn brown; pellicle separable; stipe white, margin rugose striate sulcate; gills cream color
  - Pileus 5.5cm; stipe 2.5-4x0.8-1.0cm — R. 5149, July 7
  - Pileus 1.7cm; stipe 2.3x0.4cm — R. 5145
- Pileus mars br own shading to hazel and russet on striate margin, 4cm; stipe 35x6-8mm, pale ochraceous salmon — R. 5144
- Pileus Dresden brown to mummy brown, 2.7cm., pellicle not separable; gills cream color — R. Zurqui 6130
- Pileus bister, pellicle separable, margin not striate; stipe zhite — R. Aug. 14
- Pileus cinnamon buff shading to zhite, pellicle not separable; stipe white, margin striate — R. July 7

Pileus dry, at least when old
- Pileus probably viscid when young; margin smooth or only faintly str iate
  - Pileus isabelline, 3.5cm; stipe 3x1-1.5cm, white staining brownish — R. July 11
  - Pileus deeply vinaceous lavender, 4.5cm; stipe 2.4x0.8cm — R. 5238
  - Pileus brownish, 6-7cm
    - Liver brown with donnamon buff or clay color disc; stipe white, 2.5x0.7-0.9cm — R. 6629
    - Diamine brown, maculate lighter and darker; stipe white fibrous, 2x1.6cm. — R. 5404
    - Light russet vinaceous to Hays brown and vinaceous tazny; stipe light pinkish lilac, 5x1.5cm — R. 5035
    - Pileus variegated sayal brown and bister, 9cm; stipe silky fibrillose, 8x2.5cm white — R. July 7
- Pileus wholly dry; pellicle not easily separable
  - Pileus black, margin smooth
    - Pileus rimose areolate on disc, 18cm diam.; gills white with dark edges, darkening; stipe 5.5cm diameter — R. ----
    - Pileus smooth, 8cm; gills cream becoming dark gray; stipe 1.6mm diameter — R. 5245
  - Pileus Prouts brown, margin striate; gills broad; stipe ventricose to subfusiform, 2.5x0.4-0.75 cm, flesh thin, taste slowly acrid — R. 5146
  - Pileus warm buff on disc, etc. see next p.

Pileus warm buff on disc, rest maculate of buff vinaceous and drab; gills narrow; stipe tapering upward, 5.5x0.4-1.5cm; flesh thick, taste mild; margin not striate — R. 4219

Pileus Etruscan red mottled buff pink; gills broad antimony yellow; stipe 2x0.7cm; flesh thin, taste mild; margin not striate — R. July 7

Pileus hazel, mottled lighter shading to seashell pink; margin sulcate striate; gills white; stipe white, 4x0.8-1.2cm, ventricose — R. July 11

Context without vericular cells in trama

Gills waxy — Hygrophorus (segregated)

Pileus viscid; bright colored fragile — Hydrocybe

Pileus small, less than 1.5cm in diameter

Stipe 1.5-2.6cm long

Gills decurrent — H. rosea

Gills adnate or adnexed

Pileus luteous with faint traces of red; Stipe citrine — H. flavolutea

Pileus and stipe apricot yellow — H. 5237

Pileus and stipe orange — H. aurantia

Pileus Brazil red with orange chrome disc — H. 5139

Stipe 3-4cm long; gills decurrent

Pileus yellow — H. hondurensis

Pileus red — H. subminiata

H. 4460

Pileus ferruginous — H. trojana

Pileus medium to large, usually 2-5cm broad, rarely smaller in H. laeta and H. flammea

Pileus distinctly umbonate

Pileus blackening on drying — H. conica

Pileus not blackening — H. subflavida

Pileus convex to plane or depressed

Pileus pale reddish yellow; stip e pale yellow; spores spherical — H. Earlei

Pileus and stipe strontian yellow to yellowish citrine, 6cm — H. 5024

Pileus greenish black, 3.5cm — H. 5366

Pileus ruber to miniatus; stipe luteous or paler — H. subcaespitosa

Pileus incarnate, not fading, rarely varying to white or pale fuliginous; stipe fulvous — H. laeta

Pileus Begonia rose, minutely fibrillose; stipe coral pink shading to flesh ochre below H. 6022
Pileus scarlet, soon fading
Spores 8-9 x 4-6 u H. flammea
Spores 18 x 10 u H. bella

Pileus not viscid; not brightly colored, firm Camarophyllus
Pileus white with a very large umbo C.alboumbonatus
Pileus gray C.?variolosus
Pileus orange, depressed at center C.Cantharellus
Pileus sepia to cinnamon buff C. 5348
Pileus cinnamon brown C. 5023
C. 4475
Pileus olive ochre, depressed at center C. 7186
Glutinous, veil present forming an annulus or reduced to squamules; pileus not brightly colored Hygrophorus
Pileus pale fuscous when young becoming paler except on disc 3-4 cm broad
Pileus raw umber H. subpratensis
H. 4474
Pileus ochraceous tawny to ochrac buff H. 5227, 7196
Pileus sepia to isabelline H. 5137
Pileus stramineous to isabelline with a testaceous tint 2.5 cm broad H. montanus
Pileus dark chestnut brown H. 5138
Pileus white with floccose avellaneous patches H. 7331
Gills not waxy
Volva and veil absent
Gills decurrent Clitocybe
Pileus snow white C Jy 28
Pileus 22 mm broad 3 cm broad infundibuliform convex umbilicate C. 5117
Pileus 7 mm broad C. niveicolor
Pileus whitish to pale isabelline
Pileus 1 cm broad C. trojana
Pileus 2.5-3 cm; gills cream color; densely cespitose C. 5527
Pileus 5-8 cm broad
Stipe 2-4 mm diam C. Broadwayi, 7735
Stipe 4-6 mm, gregarious, often excentric Pleurotus commiscibilis
Stipe 10 mm diam C. 5373
Stipe 20 mm diam C. mexicana
Pileus pallid with a rosy tint, light bay on conic umbo 2 cm broad C.incrustata
Pileus dilute testaceous, deeply umbilicate, 3-5 cm
Pileus orange rufous to Sanford brown — Aug 27 C.testaceoflava ? 7218
Pileus antimony yellow C.5100
Pileus clay color C. 5020
Pileus pinkish cinnamon with Sayal brown umbo
Pileus anthracene purple fading Verona brown or lighter C Aug 24 C. 5266
Pileus cinnamon brown to pale ochraceous buff C 7698
Pileus vinaceous ff rufus C Jy 28
Gills sinuate Trichloma
Gills reddish; pileus latericious
Spores globose, 3-4 u T. jamaicensis
Spores ovoid, 9-12 x 4-7 u T. holoporphyra
Gills white, pale yellow or dirty brownish
Pileus white with disc, viscid with remains of veil T. 5514

Pileus mikado brown tomentose rimose areolate — J fy 29a
Pileus light ochraceous salmon tomentose strigose. — J. fy 29

Pileus dingy isabelline — Tricholoma subisabellina
Pileus and stipe purplish lilac — T. dichropus
Pileus chestnut, stipe white — T. jalapensis
Pileus drying stipe drying — J.7124

Volva absent and veil present
  Gills adnate or adnexed — Armillaria
    Pileus viscid
      Margin striate, russet; stipe 5.5 x 2-1.5 cm — A. 5133
      Margin not striate, deep red or chocolate; stipe 5-6 x 3-5 mm Guadeloupe — A. umbillicata
    Pileus not viscid
      Pileus areolate; pinkish cinnamon to Sayal brown 5 cm diam; stipe 3.5 cm x 7-11 mm — A. 5257
      Pileus squamulose or verrucose, at least on disc
        Margin striate
          Pileus 5 cm, white or pink? umbonate; stipe 2 cm x 5 mm — A. 5235
          Pileus 7-8 cm. cinnamon brown, umbonate; stipe 7 x 1 cm equal — A. 5408
          Pileus 10 cm. mars brown to honey color; stipe 6 cm x 11-5 mm tapering downward — A 5043, 5406
        Margin appendiculate; pileus 7 mm, antimony yellow — A. 5000
        pileus 2.5 cm Pronto's brown A Goerger 9/9/36
        Margin not striate or appendiculate
          Gills foveolate with merulioid depressions; pileus orange cimmamon to Mikado brown; stipe 3 cm x 6 mm — A. 5134 (light pinkish cinnamon)
          Gills not as above
            Gills white
              Pileus 1.5 cm ochraceous tawny to warm buff; stipe 3 cm x 3 mm, warm buff — A. 5135
              Pileus 2.5 cm white?; stipe 3 cm x 10 mm white — A. 5217
            Gills walnut brownto carob brown; pileus 8.5 cm sayal brown to snuff brown; stipe 2.5 x 2-1.5 cm concolorous — A. 5285
            Gills cinnamon buff, pileus 5cm. Sayal brown to snuff brown stipe 4cm X 8-11mm. A. fy 11
  Gills free
    Spores green — Chlorophyllum molybdites
    Spores white
      Pileus viscid { pileus with clay color disc shading pinkish buff S.7326 / pileus all white — Lepiota (Limacella) agricola
      Pileus granulose or verrucose withswollen vesicles 1-2 cm — Lepiota (EuLepiota) aspratella
      Pileus pruinose, fibrillose or pulverulent, rarely glabrous
        Pileus stipe glabrous citron yellow alse light cadmium — L. golfo dulce 7709
        Pileus entirely white
          Spores ovoid, 5 u — L. lactea
          Spores broadly fusiform — L. colimensis
        Pileus testaceous
          Pileus lcm; stipe and annulus testaceous — L. subgranulosa 7704
          Pileus 4 mm; stipe and annulus white — L. testacea
        Pileus avellaneousto fuliginous
          Pileus umbonate 1-2 cm — L. rimosa
          Pileus not umbonate, 3 cm — L. Broadwayi
      Pileus squamulose; annulus fixed or evanescent; scales appressed
        Pileus dark kind brown 2cm stipe white S.7265
        Pileus carnelian red to vinaceous rufous 2.5cm stipe white S 7262
        Pileus disc buff, brown darker margin white 3 cm diam S.7327

Pileus becoming reddish on wounding 10 cm; epixylous cespitose Lepiota(EuLepiota) jamaicensis

Pileus not changing on wounding

Scales some shade of red, fulvous or isabelline; pileus 6-7 cm; stipe 7 cm, abruptibulbous L.abruptibulba 6628 7275

Scales avellaneous; pileus 0.7-2.5 cm

Pileus more than 1 cm; stipe white L. subgrisea

Pileus less than 1 cm; stipe purplish fuliginous L. subcristata

Scales brown to fuliginous; pileus 2.5-4 cm, white not changing on drying L. tepeitensis 7692

Pileus conspicuously long striate, thin, squamulose

Pileus 5-10 cm yellow, cespitose, stipe bulbous; spores 8-11x 5-7 L. cretaceus

L. cepastipes

Pileus 1-5 cm

Pileus white with yellow center L. flavodisca 7305

Pileus white with dark scales; 2-5-5 cm; spores 6-7 u; stipe 4 cm, subequal L.subclypeolaria

Pileus white with avellaneous disc, 2cm stipe 3cm X 1mm S. 7233

" " " drab disc 2.5 stipe 6 X 3mm S. 7329, 7307 golfo D

Insert L. hemisclerus.

Pileus substriate white, disc with fuscous fibrils; stipe slender, cartilaginous! L? 5505

Volva and veil present Amanita

Pileus 5 cm, convex; stipe 4.5 cm x 4 mm without bulb volva inconspicuous A. mexicana

Pileus white 11-12 mm, conic campanulate; stipe 2.5 x 2 mm with bulb flatened above, volva evanescent A. 5001,5088

Pileus 2.5 cm convex stipe 6cm X 2-3mm with bulb flattened above. volva inconspicuous a. golfo Dulce 7673

Pileus cream buff, 1.3 cm campanulate stipe 4 X 2-3mm clothed with brick red fibrils a. rubescens

a Jy 28

Spores pink
  Volva and annulus wanting
    Stipe cartilaginous
      margin of pileus incurved
        Gills decurrent — Eccilia
          Pileus white — E. 5592
          Pileus tan colored
            Pileus 1 cm; stipe 2 cm — E. cubensis
            Pileus 2 cm; stipe 4 cm — E. Earlei
            Pileus 3 cm; stipe 3.5 cm ochraceous buff C7641 — E. mexicana
            Pileus pale blue
          Pileus blackish — E. jamaicensis

        Gills adnate or adnexed — Leptonia
          Epixylous
            Pileus 2 cm; avellaneous; gills distant; stipe 3.5 x 2-3 mm, murinous — L. atrosquamosa
            Pileus 2.5, fawn color to avellaneous; gills close stipe 7 cm x 3 mm shining white — L. 5546
            Pileus 5 cm, pale red, drying chestnut red; gills avellaneous stipe 8-10 x 3-5 mm concolorous with orange base — L. 5.7206
            Pileus 4 cm. clay to pale pinkish buff; gills distant; stipe 4 cm x 3 mm Saccardo umber L. Jy 30 — L. miniata
          Terrestrial
            Pileus pale tan — L. Earlei
            Pileus livid purple — L. hypoporphyra
            Pileus murinus or avellaneous
              Stipe 4-5 cm, murinous
                Pileus avellaneous shading to tilleul buff margin gills close; stipe white, light brown when bruised — L. ----, 5559?
                Pileus murinous to margin; gills distant; stipe murinous — L. murinax
              Stipe 2-3 cm; avellaneous pileus
                Disc fuliginous; gills broad, distant, pale russet stipe fumosus — L. cinchonensis
                disc concolor; gills broad, distant pale ashy gray stipe pale avellaneous — L. mexicana
            Pileus pale pinkish buff 4 cm. — L. Jy 30

      Margin of pileus straight; gills free or adnexed — Nolanea over
        Pileus umbilicate — N. helicta
        Pileus convex ochre red shaggy linate stipe smooth white — N. 7678
        Pileus expanded drab with chestnut drab disc smooth stipe smooth white N. July 7.
    Stipe fleshy
      Gills decurrent, varying to adnate — Clitopilus
        Pileus white, 1-2 cm — C. Earlei
        Pileus gray, 5-10 cm — C. abortivus

      Gills free — Pluteus
        Pileus 1 cm or less broad
          Surface white covered with soft blackish hairs — P. tephrostictu
          Surface reddish white, glabrous — P. alborubellus
          Surface orange red — P. laetifrons
          Surface date brown — P. aethalus
        Pileus 2-3 cm, reaching 4 cm in P. compressipes
          Pileus whitish with yelloish disc — P. myceniformis

Pileus umbilicate — Nolanea helicta

Pileus convex.

pale fuscous — N. cubensis

avellaneous umber to fuliginous striate conic umbo — N. jamaicensis

drab with chaetura drab disc smooth not umbonate — N. Aug 7

apricot buff to bright ochraceous salmon striate not umbonate — N. Aug 24

Pileus flat, hygrophanous

~~Pileus not umbonate~~

Pileus 4.5 buffy citrine disc, margin smoke gray to light grayish olive — N. Aug 26

Pileus 2.5

ornaceous fawn — N Aug 24

disc verona brown vest pellucid white — N. Aug 24a

Pileus umbonate, umbo saccardo umber, margin Sayal brown — N. Aug 21

Pileus rosy isabelline, slightly darker on disc
Margin striate; stipe compressed 30 x 2-3 mm
Pluteus compressipes
Margin not striate; stipe terete 5o x 7-3.5 mm
P. 5031
Pileus dark brown or fuliginous rarely varying to olivaceous
Stipe brownish, 2 mm thick
Stipe 7 cm — P. 5081, 7320
Stipe 2 cm — P. pulverulentus
Stipe barium yellow — P. 5061
Stipe white
Pileus glabrous
Surface striate
Stipe 3. cm x 2-3 mm — P. multistriatus
Stipe 8. cm x 4 mm — P. 5223
Surface rugose, not striate — P. jamaicensis
Pileus floccose or finely asperate
Stipe 1-3 cm; pileus fuscous brownor olivaceous
P. nitens, 7322
Stipe 3-4 cm; pileus pale fuliginous to dark chestnut — P. Harrisii 7323
Pileus ~~black~~ cinnamon rufous with hazel umber — P. ~~5258~~ P 7682
Pileus black — P. 5258
Pileus 4-5 cm
Stipe 3-4 mm thick
Pileus glabrous, smooth
Pileus margin striate, stipe 10 x 7 mm gray
P. 5030
Margin not striate, stipe 4-5 x 3-4, concolorous
P spinulosus
Pileus 6-10 cm
Surface densely floccose, uniformly pale yellow
P. Earlei
Surface minutely fibrillose with pyram tufts on disc, wood brown, not shrub
Surface subglabrous — stipe white fibrillose 7.5 cm x 12-9 mm P. 7313
Margin ~~not~~ striate, stem reticulate fibrillose 7 x 7-8
P. 5065
Margin not striate, stipe smooth 8-15 cm x 7-12 mm
P. cervinus
Margin not striate, stipe silky 6 x 8 mm
P. 5380

Pileus velvety, reticulate
Stipe terete, straw color 4x5 — P. reticulatus
Stipe compressed pink 6 x 4 mm — P. 5029
Stipe 10 mm or more thick — P. rimosus
Stipe 5 mm, pileus viscid fibrillose! — P. Sandalo 7728

Volva wanting; annulus present over — Chameota Broadwayi
Volva present; annulus wanting — Volvaria
Pileus white or whitish, sometimes darker on disc
Terrestrial — V. Earlei
Epixylous
Pileus 5 cm broad; stipe 3-5 mm — V. jamaicensis
Pileus 6-10 cm broad; stipe 8-16 mm — V. bombycina
Pileus dark brown or fuliginous
Stipe 7 mm thick — V. cubensis
Stipe 10-15 mm thick — V. Bakeri

Pileus dark red drying reddish brown gills narrow drying reddish brown
stipe 4-6 X 3-5 Chamaeota Broadwayi

Pileus light tomaceous fawn shading to fuscous disc gills broad light salmon
orange stipe 9 X 4-9 mm ~~ring~~ C 7665

Spores brown
  Volva and annulus absent
    Pileus irregular, dimidiate or resupinate — Crepidotus
      Pileus 2-10 mm (see also C. cuneiformis)
        Pileus floccose pulverulent, {pure white — C.parvulus
        Pileus glabrous {ochraceous tawny — C fy/0
          Pileus 2-5 mm broad
            Surface russet white or isabelline
              Stipe inconspicuous, fugacious — C. Citri
              Stipe conspicuous, persistent — C. eccentricus
            Surface chrome yellow — C. Dussii
          Pileus 5-10 mm
            Pileus avellaneous or lighter — C. 5554
            Pileus pale ochraceous — C. Psychotriae
            Pileus testaceous to latericious — C. bicolor
      Pileus 1 -6 cm, sometimes smaller in C. cuneiformis and C. subcuneiformis
        Pileus white or whitish
          Pileus striate on the margin
            Margin very thin, pellucid, becoming dark on drying — C. cinchonensis
            Margin thicker — C. sulcatus
          Pileus not striate on the margin
            Pileus 1 cm broad — C musaecola
            Pileus 2-3 cm
              Surface with small, brown pyramidal fibrils — C. 4812,7318
              Surface glabrous — C.fumosifolius
            Pileus 6 cm, viscid, glabrous, edges of gills floccose — C. 5122
        Pileus yellowish, isabelline, ochraceous or melleous
          Pileus about 1 cm broad
            Surface glabrous or nearly so
              Pileus sessile — C. subcuneiformis
              Pileus attached by dark breddishbrown stipe — C.substipitatus
            Surface squamulose — C.cacaophyllus
          Pileus 3 cm broad, decorated with minute conic elevations — C.calolepidioides
          Pileus 5 x 3.5 cm, ochraceous buff, minutely tomentose; gills amber brown — C. 5547
          Pileus 6 x 4 cm, fibrillose scaly, disc snuff brown shading to cream buff, sessile, gills decurrent — C. 5129
        Pileus ochraceous red, pulverulent, deeply lacerate — C. laceratus
        Pileus rufous, glabrous, not lacerate, sometimes lobed — C. pyrrhus
        Pileus buckthorn brown, blackening, gills cinnamon buff, thick, crisped, interveined, decurrent — C. 5049
        Pileus clay color 2.5 cm, gills cream buff, sessile — C. 4981
        Pileus pale brown or watery brown
          Pileus 8-12 mm lamellae serrulate — C.cuneiformis
          Pileus 1-2.5 cm; gills not serrulate — C.aquosus
        Pileus clove brown, faintly striate, gills olive brown — C. 5064
        Pileus and gills light pinkish cinnamon; stipe olive buff — C. 4982
        Pileus russet scaly - 3x6 cm gills wood brown stipe none — C fy/6
        Pileus russet strigose 2.5x1.5 cm gills flesh pinkish stipe lateral — C fy/15

Pileus centrally stipitate
  Stipe cartilaginous
    Gills not autolyzing — Parillus 6137
      gills separable
      gills not sep. / Gills decurrent — Tubaria
        Pileus dark brown, pulverulent; stipe 4 mm thick — T. coniophora

Gills adnate or adnexed
  Margin straight and appressed — Galera
    Stipe 7-20 mm long [7-23]
      Pileus 3 mm, tawny to russet; stipe 23 mm — G. 5106
      Pileus 5 mm
        Epixylous — G. Martiana
        Terrestrial on clay banks — G. echinospora
      Pileus 6 mm — G. 5107
        Pileus 7 mm — G. 5350
        G. 5349
        G. 5377
      Pileus 10 mm; gills distant — G.distantifolia
      Pileus 12 mm; gills close; mummybrown with echinate groups of fibrils — G. 5516
    Stipe 2.5-5 cm
      Pileus cylindric — G. macromastes
      Pileus subconic or campanulate — G. Hypni, 7314
      Pileus becoming depressed with margin reflexed — G. reflexa
    Stipe 8-12 cm
      Pileus 1-2 cm, margin striatulate
        Surface smooth — G. tenera
        Surface subsquamulose — G. flocculenta Fr.?
      Pileus 2-6 cm
        Margin striatulate — G. crispa
        Margin not stiatulate — G. mexicana

Margin incurved (see also N.arenicola) — Naucoria
  Pileus white or whitish
    ~~Pileus convex 1 cm broad~~ — ~~N. tepeitensis~~
    Surface glabrous
      Pileus convex, 1 cm broad — N. tepeitensis
      Pileus umbonate, 2.5 cm broad — N. jalapensis
    Surface papulose; pileus 2.5-5 cm broad — N. papularia
  Pileus dull olivaceous, 1 cm broad — N. subolivacea
  Pileus testaceous with bay umbo, 7 mm broad — N. pellucida
  Pileus vinosus, 6-8 mm — N. oinoides
  Pileus ochraceous, isabelline or fulvous, sometimes differently colored on disc
    Pileus 0.7-1.5 cm broad
      Surface glabrous, fulvous — N. hepaticola 5162.
      Surface innate fibrillose, isabelline
        Gills pale ochraceous — N. cyathicola
        Gills bay-fulvous at maturity — N. corticola
      Surface hispid-squamulose, fulvous — N. mexicana
      N. 5010

Pileus 2-5 cm broad
Stipe 1.5 cm; pileus umbonate ochraceous tawny with cinnamon brown disc, margin not striate, but appendiculate N. 5164
Stipe 2-2.5 cm, sometimes longer in N.subpectinata
Pileus ochraceous with subfulvous disc, slightly depressed N. xuchilensis
Pileus cinnamon brown, convex viscid N. 5083
Pileus isabelline with testaceous disc, umbonate N. spinulifer
Pileus fulvous, depressed, striate N. subpectinata
Stipe 3-4 cm
viscid Pileus bay to buff, stipe 4-5 mm diam, viscid N. 5167
Pileus cinnamon buff, stipe 1.5 mm diam N. July 14
Pileus alutaceous, stipe 2 mm diam N. Earlei
Pileus ochraceous orange, stipe 2 mm diam N. 5011
Pileus warm buff stipe 2-3 mm N. Jy 28
Stipe 4-8 cm
Gills close N. semiorbicularis 7237
Gills distant, fuscous v.costaricensis 16/32
Pileus some shade of umbrinous or brown, glabrous, 1-2 cm
Stipe 1-2 mm
Pileus umbonate
Margin striate N. montana
Margin not striate N. 5165
Pileus convex, margin not striate N. Sacchari
Pileus depressed; margin not striate N. 5159
Stipe 3 mm thick, pileus conves, margin not striate N. underwoodi
Pileus auburn with conical, bay umbo, marginstriate, 4 cm N. 5009

Gills free Pluteolus
Pileus 2 cm, umbonate fibrillose, Russels brown, stipe 4 cm x 2.5 mm P. 5111
Pileus 3-4 cm; not umbonate, glabrous, isabelline, stipe 10 cm x 5 mm P. jamaicensis
Gills autolyzing Bolbitius
Pileus flavo-melleous or sulfur yellow, tawny on disc
Stipe glabrous B. jalapensis
Stipe villose B. villipes
Pileus avellaneous, brownish on the disc
Pileus 12 mm; stipe 6 cm B. brunneidisca
Pileus 2 cm ; stipe 2-4 cm B. mexicana
Pileus japan rose to flesh color margin pileus 1.5-2 cm stipe 3-4 cm B.7306

Stipe fleshy to woody
Gills adnate to short decurrent; ~~epigylous~~ Flammula
Terrestrial
Stipe 2-4 mm thick
Pileus dry F.hypholomoides
Pileus viscid F. carbonarius
Stipe 6-8 mm diam 2-2.5 cm long, dry F. ricensis
Stipe 10 mm diam, 8 cm long, dry F.jalapensis

Epixylous
- Pileus glabrous
  - Pileus amber brown to antique brown, slightly umbonate stipe 18 x 6 mm — Flammula 5172
  - Pileus yellow-olive; stipe 1.5 cm — F. olivaceus
  - Pileus yellowish orange to greenish; stipe 4-7 cm — F. aureoviridis
  - Pileus melleous, ochraceous or luteous, stipe 3-5 cm — F. flavidellus
  - Pileus ferruginous to fulvous; stipe 4-6 cm — F. chrysotrichoides
  - Pileus ferruginous vinous; stipe 2.5-3 cm — F. helvoliceps
  - Pileus red tinged with vinous; stipe 3-4 cm — F. vinicolor
- Pileus fibrillose to squamulose, sometimes becoming more or less glabrousin age
  - Pileus goldenyellow
    - Stipe 1 cm, gills adnexed — F. 5521
    - Stipe 2-5 cm
      - Tawny 13'g maculate, mustard 19'd yellow up to 2 cm; stipe 3 cm, slender — F. 4642,7233
      - Not maculate 2.5-4 cm; stipe 2.5 cm x 8 mm — F. chrysotrichus
      - Not maculate, russet 13'k to antimony 17'b yellow; stipe 3 cm x 7 mm — F. 5021
      - notmaculate, antimony yellow stipe 4.5 X 4-3 mm zinc orange F 7308
    - Stipe 8 cm long
      - Gills decurrent — F. chrysopella
      - Gills adnate — F. aureobrunnea
  - Pileus pale yellow to ferruginous orange
    - Pileus about 1 cm, umbilicate, umbonate, stipe xanthin 13'i orange to zinc 13' orange — F. 5520
    - Pileus 2-4 cm, rarely reaching 6 cm
      - Pileus umbilicate or depressed
        - Stipe 2-2.5 cm — F. hispidus, 7650
        - Stipe 3-5 cm — F. palmicola
        - pileus tan ochraceous buff — F. [illegible]
      - Pileus convex to expanded
        - Stipe 2-4 cm
          - Pileus amber brown 13 k — F. 5169
          - Pileus auburn 11m — F. 5179
          - Pileus raw sienna 17 — F. 5181
          - Pileus ochraceous 17'
            - Taste mild — F. pholiotoides
            - Taste bitter
              - Margin striate — F. parvulus
              - Margin not striate — F. hispidellus
          - Pileus ferruginous 9'i — F. bryophilus
          - Pileus ferruginous orange — F. subpenetrans
          - Pileus chestnut 9m — F. 5176
        - Stipe 4-7 cm long
          - Pileus ochraceous 17' — F. Nashii
          - Pileus pale ferruginous — F. Earlei
    - Pileus 6-10 cm broad
      - Pileus deeply depressed — F. depressus
      - Pileus not depressed
        - Gills decurrent
          - Stipe 4-6 x 5-8 — F. tenuis

Stipe 2.5 cm x 5 mm — Flammula 5177
Gills adnate — F. areolatus
Pileus fulvous 13'i — F. penetrans
Pileus latericious 5'k — F. lateritia

Gills sinuate or adnexed, terrestrial
Pileus glabrous and viscid — Hebeloma
Pileus white or pale isabelline
Stipe 2-4 mm diam — H. broadwayi
Stipe 7-10 mm diam — H. cinchonense
Pileus pale testaceous, scarcely 1 cm diam — H. subtestaceum
Pileus incarnate isabelline, 2-2.5 cm diam — H. subincarnatum
Pileus chestnut brown — H. cubense
Pileus mummy brown to dresden brown with white margin 8-10 cm diam — H. 5405
Pileus isabelline shading to colonial buff 3 cm — H. 6128

Volva absent; annulus present
Stipe glabrous, fibrillose — Pholiota
Pileus large 3-12 cm; tawny to cinnamon brown
Stipe pale yellow, 3-6 cm x 3-10 mm — P. cubensis
Stipe soon blackening, 10 cm x 1-3 cm — P. Brittoniae
P. 4647
P. 5378
Pileus much smaller, up to 4 cm.
Pileus 3 mm; pale avellaneous; stipe 5 cm x 4 mm, white
Pileus 5 mm to 4 cm
Pileus white or isabelline; stipe concolorous or slightly lighter
Pileus 0.5-2 cm; stipe 2 x 1-2 mm — P. bryophila
Pileus 1-3 cm; stipe 4-7 cm x 2-3 mm — P. Broadwayi
Pileus pale fuscous to tan, 1-4 cm; stipe white, 4-6 cm x 3-6 mm — P. Musae
Pileus ochroleucous to ochraceous, 1.5 cm; stipe 1.5 cm x 1 mm — P. cinchonensis
Pileus cinnamon buff to ochraceous orange, 05 -2 cm; stipe 2.5-5 x 2-4 mm — P. unicolor
Pileus reddish brown, 0.8-1.5 cm; stipe 2-3 cm — P. martinicensis
Pileus vinaceous cinnamon, 2.5 cm; stipe 3.5 cm x 3-5 mm — P. 5372
Insect July 13, 14
Stipe squarrose scaly — Hypodendron
H. 5253

Volva present; annulus absent — Locellina July 28

Volva present; annulus present — Rozites

Spores purple brown
  Pileus lateral or excentric ----- 7316 fy 33
  Pileus centrally stipitate
    Stipe cartilaginous, no annulus present
      Lamellae decurrent Deconica fy Aug 2
      Lamellae adnate or adnexed
        Margin of pileus straight Psathyra
          Pileus white, umbonate (1300m) P.4731
          Pileus brownish olive, shading to chamois 3.5 -4 cm, stipe 6 cm x 4 mm white conic, margin striate (40m) P.7276
          Pileus buff or chalky white to fusous margins, expanded, margin lacerate, broad umbo (1300) P.4723
          Pileus buff shading to white, expanded, margin substriate broad umbo, stipe white P.5593
          Pileus honey yellow to olive lake margin isabelline, umbilicate, stipe wax yellow (2250) cf. Ps. pseudotener P. 5102
          Pileus avellaneous to buffy brown, expanded to hemispheric lowland except P. 5105
          ~~Margin inrolled, pileus 1.5 cm avellaneous stipe 4-5x 1.5 mm~~
          Pileus less than 1 cm, tilleul buff, stipe 2cm x 1 mm concolor, margin inrolled P.7278
          Pileus 1-2 cm, stipe white
            Margin inrolled, pileus 1.5 cm avellaneous stipe 4-5x 1.5 mm P.7230
            Margin striate, pileus 1-1.5 cmwood brown to buffy brown, stipe 2 x 0.5 mm umbonate P.7292, 7638
            Margin unknown, pileus 2 cm, wood brown, stipe 3 cm x 2 mm (2100) P.5105
            (See also 4811)
          Pileus yellowish fuscous 1.2-1.6 cm longconic stipe pale yellow Ps. bulbilloans
          Pileus yellow 4-6mm stipe very slender with flat base 2cm Ps. epibates
        Margin of pileus incurved Psilocybe
          Pileus viscid under squamose universal veil, convex, 3.5 cm russet shading to antimony yellow; stipe russet, shaggy below P.5160
          Pileus not viscid, no evidence of universal veil, stipe silky smooth
            Gills adnexed, pileus campanulate, 2 x 1.2 cm, shining white, margin smooth, stipe white 8 cm x 3-4 mmP.5529
            Gills sinuate adnate, pileus expanded stipe concolor or nearly so
              Pileus gibbous zinc orange to pale pinkish buff velvety P. 4733
              Pileus umbilicate, honey yellow to ol~~d gold~~ ivelora shading to old gold P. 5102
            Gills adnate
              Stipe concolor or nearly so, margin smooth
                Pileus 0.7 cm expanded tilleul buff P.7278
                Pileus up to 4 cm, campanulate disc merulioid, ochraceous orange to ochraceous buff, subtomentose P. 4732,4736
                Pileus up to 3cm convex disc smooth amber yellow margin dull citrine P. fy 10
              Stipe white, margin usually striate
                Pileus conic, 4 cm chestnut brown to avellaneous margin striate; stipe 8 x 2.5-3 mm P. 5082
                Pileus campanulate 12 mm light buff to light drab, margin striate; stipe 6cm x 1mm P. fy 14

Pileus conic expanded 2 cm raw umber, margin striate
stipe 2.5 x 2 Psilocybe 4986
Pileus hemispheric, 3 cm honey yellow shading cream
buff to cartridge buff, margin lacerate, striate
stipe 4 cm x 3 mm Ps. 4984
Pileus expanded
Pileus tomentose, margin lacerate stipe more than
5 cm x 4 mm Ps. 4811
Pileus nottomentose, ~~margin~~
hygrophanous
Disc white margin fuscous, margin lacerate, stipe
2 x 3mm Ps. 4723
Disc buff, margin white, substriate Ps 5593
gray
Gills free
annulus absent
Pileus dark yam brown stipe 3 X 3 Pilosace 4815
Pileus sayal brown 2cm stipe 6 X 1.5 P.7279
~~annulus present~~ -----4498
Pileus argus brown to Brussels brown 5cm; stipe 7X3-6mm
stipe fleshy Pileus warm buff & avellaneous P. Jy 15
Gills adnate warm sepia to Verona brown stipe 7X4-6 P Jy 15a
3cm stipe 4X3-2 P Aug 24
~~Annulus absent, margin appendiculate~~ Hypholoma
annulus present Nevermannia
~~H.5407~~
Stipe fleshy
gills free
H.5243
Annulus present
volva absent Psalliota
Pileus more than 10 cm honey yellow, stipe 13-20 mm
thick Ps.5157,7672
Pileus under 7 cm
Stipe thick, 5-10 mm
Pileus hazmatt red Ps Aug 24
Pileus Etruscan red or darker Ps. 4753
Pileus ochraceous (15-17)
Pileusochraceous buff disc warm buff stipe
warm buff to white, tapering downward,
annulus broad, thick, single Gte Ps6957
Pileus mummy yellow with remains of universal veil; stipe white equal, annulus broad erect single Ps Aug 15
Pileus prouts brown 5.5 cm stipe white, annu-
lus double, broad, bulb flat margined S.J
Ps.5376
Pileus buckthorn brown or lighter, viscid,
stipe grenadine pink or lighter, annulus
membranous to black Gte Ps.6955,7654
Pileus buckthorn brown or lighter, subscured stipe silky French green, light Dambagreen Ps J 1.
Pileus sepia, 4 cm rimose fibrillose; stipe
equal white, annulus double, broad thic k
S.J. Ps.5027
Pileus brown 6.5 cm, tomentose scaly, stipe
white tapering upward, annulus thick,
spreading Ps.4816,4498
Pileus umber 6.5 cm squamose, stipe white
tapering upward, annulus evanescent
Antilles Ps. jejunus Fr.
Stipe slender 1-4 mm more or less cartilaginous
low elevations (n.g.)margin striate
Pileus wood brown, disc darker 4 cm, stipe
white, annulus narrow to medium erect 4
cm below apex Ps.7285
of Nevermannia

Pileus pale ecru drab, disc orange vinaceous
4 cm stipe vinaceous cinnamon, annulus broad
white, bulb 6 mm Paalliot 7235
Pileus light cinnamon drab disc warm sepia 2cm
stipe warm sepia, annulus narrow, erect,
no bulb. Ps. 7294
Wercxle reports campestris + arvensis
Volva present Clarkeinda 5336
Annulus absent Pilosace
Pileus 10 cm, stipe yellow rufous, 12-15 x 6-8 fuscous
P.tricholepis
Pileus 5 cm, white, stipe white 5 x 4-6 bulbous
P. hololepis
Gills adnate or adnexed
Annulus absent, margin appendiculate Hypholoma
Pileus apricot yellow, gills adnexed, stipe light
buff shading to russet compressed H. 5407
Pileus tawny shadingto buffy yellow 3 cm gills adnate
stipe light buff shadingto tawny fibrillose
H.5243
Pileus deep cinnamon, shading to white 7cm gills sinuate adnexed
Annulus present Stropharia
Volva absent
Volva present, becoming gelatinous, pileus viscid
-----5370,5160

Spores coal black
Gills not autolysing
Stipe cartilaginous
Lamellae adnate or adnexed
Margin of pileus straight Psathyrella
annulus absent
Pileus and stipe becoming black; gills adnate
Pileus villose, broad conic Ps. 5131
Pileus smooth, expanded Ps.5118,7648
Pileus ochraceous (15-17), margin more or less striate
Gills adnexed, pileus velvety, expanded campanulate,
disc cinnamon, margins wood brown to drab, stipe
whitish 5x 2 Ps. 4997
Gills adnate
Pileus buffy brown, innate fibrillose hemispheric
margin appendiculate Ps. 4644
Pileus ochraceous buff, membranous campanulate
Pileus warm buff, hemispheric Ps. 5113 Ps. 5085
Pileus vinaceous fawn, campanulate Ps.7694
Annulus present ? 6135
Margin of pileus incurved Panaeolus
Pileus 1.6 cm buffy brown stipe drab P.4644
Pileus areolate spotted white stipe white yellow below P. Phalenarum
Pileus pale yellow stipe pale rufous P. campanulatus
Gills free ?6954
Stipe fleshy
Gills adnate no annulus present
Annulus and gelatinous volva present Iglesias 5371

Gills autolysing — Coprinus

Pileus all white, lacerate squamose 6 x 20 cm, stipe 37 x 20 C.comatus?4953

Pileus white with isabelline disc 3 x 2, stipe 11x 4 C.7225

Pileus ochraceous (15'-19")

- Pileus isabelline 4x5 stipe 15 x 5 — C7661
- Pileus chamois, 1 x 1, stipe 3 x 2.5 — C5059
- Pileus dresden brown toavellaneous — C5060
- Pileus buckthorn brownto warm buff 1.5 x 1.8 stipe 2-4 C.5109
- Pileus cinnamon brown to ochraceous tawny 3.5 x 3 C. 5388

see also C.armillaris C ephemerus, C. plicatilis, C sp Oerstic 12

Lennita

Pileus campanulate 1.5 cm. diam. 1 cm. tall, surface minutely scaly fibrillose. Volva sheathing stem 1 cm. loosely cottony involving bit of trash and leaf. Disc cream buff with brick red minute fibrils margin cartridge buff. gills narrow free crowded white, stipe 4cm. by 2-3mm. tapering upward ring erect regularly dentate lacer to primose minutely guttulate above ring below minutely scaly with brick red fibrils

Castill 7-28-36

Specimen (Dried)

Costa Rica Limon Prov. Castilla 7- 8-36 20M
Dodge & Goerger

Amanita

Pileus conic campanulate, white, 12 mm diam, cottony universal veil quite uniformly distributed over surface; margins slightly inrolled, thin; gills close free, white, annulus thick erect; stipe 24 x 2 mm, taperingupward, b ulb flattened above, covered with a cottony universal veil which has a very cottony, evancescent free margin on outer edge of bulb.

On bank on roadside

Specimens examined

Costa Rica: San Jose, Rancho Redondo, 2200m Dodge & Thomas 5001

Amanita

Pileus conic, 11 mm diam, white, minutely fibrillose squamose with torn remains of universal veil; volva membranous involving particles of soil on its outer surface; gills free, narrow, crowded white; stipe 2.5 cm x 2 mm bulb spherical 6 mm smooth, silky; annulus narrow e erect with a a few particles of soil clinging to it.

Bank by roadside

Specimens examined;

Costa Rica: San Jose, Rancho Redondo, 2250 m. Dodge & Thomas 5088

Amanita

Pileus 2.5 cm, convex, pure white, innate fibrillose, margin slightly apprendiculate, smooth; gills free, ventricose, crowded white, ring inconspicuous, narrow, erect; stipe white, 6 cm x 2-3 mm, tapering upwardbulb flat with marrow marginal volva

Costa Rica: Puntarenas, Osa, EsteroSandalo 5-20 m. Dodge 7673

Armillaria

Pileus expanded depressed, 8.5 cm, margin crenate inrolled somewhat lacerate in age; surface fibrillose squamulose, sayal brown to snuff brown, flesh white, thin except on disc; gills walnut brown to carob brown, decurrent by line to ring which is narrow, thick, concolorous; stipe tapering downward concolor with pileus, fleshy fibrous 5.5 cm x 2 cmabove 1.5 cm below

In bare soil banks by roadside

Specimens examined

Costa Rica: San Jose, Rancho Redondo, 2250 m Dodge & Thomas 5285

Armillaria

Pileus expanded, moist, slightly viscid(remains of universal veil present, since soil clings to stipe from position ocupied by margin of pileus to end) russet, slightly lighter arround faintly striate margin; flesh thin on disc except gills adnate with decurrent line to annulus, pinkish, medium width, close, regularly interveined stipe fleshy, 3 cm x 8 mm, innate fibrillose, annulus fibrillose, persistent

Bank by roadside among mosses

Specimens examined

Costa Rica: San Jose, Rancho Redondo, 2500m, Dodge &Thomas 5133

Armillaria

Pileus 1.5 cm., surface pruinose to very slightly verrucose, scaly, margin thin, appendiculate with volva; warm buff, shading to ochraceous-tawny disc; gills adnate, close, white; stipe 3 cm. # 3 mm., warm buff, fibrillose above; annulus ochraceous-tawny above, below verrucose, scaly, scales floccose at annulus.

Bank by roadside

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 220, Dodge & Thomas 5135

Armillaria

Pileus flat, 5 cm. with slight conical umbo,disc pyramidal, scaly, margin striate-sulcate, flesh thin, except on disc; gills white, ventricose, pink decurrent by a line, edges darker, close; stipe spongy, fleshy with fibrous cortex, cottony below; somewhat evanescent annulus, ending in bulb, 2 cm.# 5 mm.

Mossy bank of roadside

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 2500 m. Dodge & Thomas 5235

Armillaria
~~Lepiota~~

Pileus hemispheric, margin thin,unrolled, appendiculate up to 7 mm. diam, surface pyramidal, warts like Elaph. variegatus but much finer, antimony yellow, flesh,medium thickness, a little lighter than surface; gills close, white, ventricose, sinuate-adnate; ring like Cortinarius but thicker; stipe tomentose above ring, below with warts like pileus, but larger and of looser texture, 2 cm. # 12 mm. above ring, 2 mm. below, ending in slight bulb

Bank of roadside

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 2250 m. Dodge & Thomas 5000

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Armillaria

Pileus not fully expanded, 2.5 cm in diameter, 1.5 cm tall, convex, with large broad umbo, densely strigose tomentose scaly on umbo, strigose scaly over rest; prouts brown, margin appendiculate; gills adnate to slight ly decurrent, close, broad, white; stipe 6 cm x 5.5- 12 mm, ring slight perhaps evanescent in fully mature specimens, fibrillose spongy, drab gray with fusiform bulb, 12 mm tapering upward.

Heredia, Concordia, 1900 m., Goerger 9-9-36

Armillaria

Pileus expanded, 10 cm.,depressed,margins wavy, striate, unrolled when young broadly umbonate in depression, Mars brown, lighter toward margin, even, honey color, minutely fibrillose, scaly, flesh thin, except on disc; gills decurrent by a line, adnate, ochraceous-salmon, darker in age, narrow,close; stipe fibrous, stuffed, tapering downward, 6 cm. # 11 mm. above, 5 mm. belwo, silky, fibrous with floccose warts just below & on underside of lacerate,fleshy, fibrous annulus.

Stump in potrero

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 2200m. 2400 Dodge & Thomas 5043, 5406

Armillaria

Pileus expanded broadly umbonate, 7-8 cm disc minutely scaly, cinnamon brown shading to cinnamon buff, margin striate sulcate; gills pinuate adnate broad, close, pale pinkish cinnamon; stipe fibrous, cottony below, somewhat evanescent annulus, tapering or equal 7 x 1 cm

Forming fairy ring around old decaying stump

specimen from Zurqui agrees except pileus 5.6 cm or less stipe 6 cm x 9 mm. covered with cottony veil

Specimens examined

Costa Rica: San Jose, Rancho Redondo, 2200 m Dodge&Thomas 5408

Heredia: Cerro Central de Zurqui 1600 m Dodge Valerio & Thomas

(12) Surface avellaneous, with a fumosous tint, the disk concolorous. M.fumosiavellaneus.

13 Pileus cespitose, not striate. M.avellaneigriseus.

10 Stipe 5-7 cm. long. M.gracillipes.

9 Pileus about 1 cm. broad

Surface avellaneous, striate. M.argillaceus.

Surface dark-brown, not striate. M.pubescens.

Pileus 3 cm. ~~[illegible]~~ shading to whitish M 5127 M 5126

Pileus 1.5-2cm. broad

Surface sepal brown M.5112 Surface fuscous

Surface pale-isabelline or avellaneous. M.cinchonensis.

Surface olive brown M.5113

Surface ochraceous-brown. M.carbonicola.

Pileus Surface Brussels brown M.4656

(8) Pileus lilac or some shade of red.

Pileus 5cm, wood brown M5375

Pileus 2.2cm wood brown M 5379

Pileus 5-8 mm. broad.

Surface lilac-colored. M.syringeus.

Surface dark-testaceous. M.testaceus.

Pileus 1-2cm. broad; stipe 2-3 cm. long.

Surface lactericeous; lamellae testaceous. M.lacterius.

Surface chestnut-red; lamellae fawn colored. M.corrugatus.

Surface madder brown to pompeian red M.5346

Pileus 2-5cm. broad; stipe 5-8 cm. long. rose to lilac M.purus.

Margin at first incurved.

Lamellae decurrent; pileus umbilicate Omphalina.

Pileus white or whitish.

Pileus about 1 cm. or less broad.

Pileus about 5mm. broad; stipe 6 mm. long. O.niveicolor.

Pileus 8-13 mm. broad; stipe 1-4 cm. long.

Pileus not umbonate

Stipe 2 cm. long; pileus 13mm. broad. O.subscyphoides.

Stipe 4 cm. long; pileus 8mm. broad. O.tepeitensis.

Pileus umbonate.

Pileus convex, with an abrupt, small umbo. O.cuspidatella.

Pileus conic, with a long, pointed umbo. O.acuminata.

Pileus 3 cm. or more broad.

Pileus convex to umbilicate; lamellae distant. O.collybiiformis.

Pileus infundibuliform; lamellae crowded. O.jalapensis.

Pileus yellow or yellowish.

Pileus infundibuliform, 1-1.5 cm. broad. O.lenta.

Surface isabelline O.lenta.

Surface flavovirens, becoming melleous. O.flavella.

Agaricales

Pileus exp. depressed 5 cm. margin smooth or slightly or not over lined; surface smooth or slightly tomentose zyrorhrous, pale brown to snuff brown on disc, flesh pale pinkish buff thin at margin 5mm. at disc. gills cinnamon buff decurrent by line half way to ring which is thick concolor easily separable; stipe 8 above 11 m. below 4cm. fibrous white clay color on pale pinkish buff ground.

Costa Rica San José Prov. Rancho Redondo [illegible], 7-11-30
Dodge & Goerger

Armillaria

Pileus not fully expanded but convex,2.5 cm.,very squarrose to pyramidal,scaly on disc,less so toward margin; gills close ventricose,sinuate-adnate,white,decurrent by line to annulus; stipe short, 3 # 1 cm.,white,cottony without becoming cinnamon,buff where handled.

Among mosses.

Specimens examined:

CostaRica, San Jose, Rancho Redondo, Alt.2300 m. Dodge & Thomas 5217

Armillaria
~~Tricholoma~~

Pileus expanded 5 cm.; margin thin,unrolled with remains of partial veil; surface innate-scaly,appearing areolate,pinkish-cinnamon and sayal brown;gills, light pinkish-cinnamon,close, sinuate-adnate with slightly decurrent line about 2 mm. to evanescent annulus;stipe, thick, short,tapering upward,white becoming yellow where handled,fibrillose-scaly,pale fleshy, 5.5 # .7-1.1 cm.

On decaying log

Specimens examined:

Costa Rica: San Jose,Rancho Redondo, Alt.2400m. Dodge & Thomas 5257

Armillaria
Chaeota
New Genus.

Pileus verrucose on disc;flaccose-squamulose,margins, glabrous,-striate,orange-cinnamon to Mikado brown;gills, light-pinkish-cinnamon, darker edge;plane of gill shallow,reticulate-porose as in young poroid Merulius; annulus broad,persistent but thin;stipe fleshy,striate above annulus, floccose,striate below; dirt adhereing to bulb as pseudovolva, 3 cm #06 mm., continuous with pileus.

Mossy bank.

Specimens examined:

Costa Rica:San Jose,Rancho Redondo Alt. 23-2400 m. Dodge & Thomas 5134

Armillaria

Cortinarius

Pileus expanded 18 mm.,antimony-yellow with long conical, dark Indian-red spines, especially on disc; gills close,broad,adnate with decurrent tooth antimony-yellow; stipe fleshy,3.5 cm. # 3 mm. antimony-yellow above, whiter below; annulus cortinoid,evanescent; stipe fibrillose, splitting.

Specimen examined:

Costa Rica, Limon, Rose Hill, Alt.90 m.,above Rio Pacuare, Catt, Dodge, & Thomas 5540

Bolbitius

Gomphidius?

Coprinus?

Pileus campanulate, slightly umbonate, fibrillose, salmon to rufous, margin not striate; gills crowded, broad, free or nearly so, white at first, then brown and deliquescing;stipe concolorous, 1 cm # 1 mm.,slightly fibrillose with remains of cortina forming inconspicuous ring.

Decaying log.

Specimens examined:

Costa Rica, Limon, Rose Hill above R.Pacuare, Catt, Dodge, & Thomas 5509

Bolbitius

Pileus 1.5 -2/ cm, campanulate, margin inrolled, minutely tomentose, japan rede on disc shading to flesh color at margin; gills brown, deliquescing, close, free; stipe fragile, cartilaginous, smooth, flesh color above ~~ring~~, japan rose ring, white below, elongating to 3-4 cm.

Decaying stumps and logs in bananal.

Specimen from Castilla July 26 flesh ochre shading to salmon, gills mummy brown, stipe white ring evanescent. Specimen from R. Sandalo light salmon orange stipe white ring cortinate present

Costa Rica: Limon, Marta 20 m. Dodge 7306; Castilla July 26.
Puntarenas, Osa, R Sándalo 5 m Dodge & Goerger Aug 24, Sept 1

Boletus

See painting. Surface cracked minutely velvety; tubes large angular, not changing color when wounded, mouths not different color; flesh with faint pinkish tint, developing slowly after cutting; stipe deep brown, broably starting to decay since tubes and part of the surface of cap show whitish mycelium

Specimens examined:

Costa Rica: San Jose, Rancho Redondo, 2230 m, Dodge &Thomas 4985

Boletus

Pileus 1.7 cm cm, minutely verrucose, velvety, orange rufous or darker, convex, flesh thick on disc thin toward margin; tubes white, depressed around stipe; stipe floccose tomentose, concolor taperingupward 3.5 cm x 3-5 mm

Mossy bank by roadside

Specimens examined:

Costa Rica:San Jose, Rancho Redondo 2150 m Dodge & Thomas 5120

Boletus

Pileus flat, 1.2cm., velvety tomentose, sunny brown flesh 3mm. thick thinning to edge, upper third old rose or darker when cut. tubes 4mm., yellow, mouths of tubes at margin stained old rose

Stipe very short, broken off, .6 X 2mm.

Mossy roadside banks

Costa Rica, San José prov., Guayabillos, 2300 m. 7-16-36

Dodge & Goerger

Boletus

Pileus 13mm., convex, surface tomentose, almost black, parasitized, flesh white, 2mm., unchanging, tubes cream color 1.5mm., unchanging, large angular

Stipe 1.2cm. x 2mm., tomentose? (now covered with soil)

Mossy roadside bank

Costa Rica, San José prov., Guayabillos 7-16-30

Dodge + Goerger

Boletus Satanus group

Pileus convex, 3.5cm., warm sepia, tomentose, submeruloid
flesh 4mm. thick thinning to margin, mikado brown under pellicle,
seafoam yellow unchanging, tubes adnate depressed around stipe, lime green,
up to 7mm. long, nearly 1mm. in diameter, mouths angular, tinged light
jasper red.
Stipe tinged light jasper red, tomentose, 3cm. x 6-4mm, tapering
downward.

On mossy bank

Costa Rica, San José prov, Rancho redondo near bridge 7-13-36
Dodge & Goerger

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Cantharellus

Pileus convex, flesh thick, 2 cm, orange buff, spongy fibrillose; gills narrow, distant, with anastomosing merulioid cross gills, orange decurrent thick; stipe 6.5 cm x 3 mm, fleshy ~~xxxxxxxxx~~ tapering downward, concolor

Heredia Chahuites, 1600 m., Goerger 9-11-36

Cantharellus

Pileus 4 cm (both pilei in poor condition but apparently buff) infundibuliform; gills orange buff.

Specimens examined:

Costa Rica: San Jose, Rancho Redondo, 2250 m, Dodge &Thomas 5132

[illegible]

[illegible]

Pantherillus Cibarius

Pileus flat up to 2.2 cm. diam. surface spongy floccose coralline disc tilleul buff; gills thick anastomosing near buff decurrent; stipe 3 cm. equal fibrillose cinnamon buff.
Caespitose

Terresurial quebrada forest

Costa Rica San José Prov. Guayabillos 2250 m 7-7-36
Dodge & Goerger

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Chamaeota

Pileus 5.2 cm diam, fibrillose, bibulous, deeply sulcate-striate over gills, disc fuscousto fuscous black surrounded by zone cream withsmall fuscous scales, margin light vinaceous fawn; gills free, ventricose, close, light salmon orange; stipe fleshy, tapering upward 9 cm x 4-9 mm, silky fibrillose, white, ring appressed, inconspicuous, erect 3.5 cm below apex, no sigh of volva

Costa Rica: Puntarenas, Osa, Estero Sandalo 5-20 m Dodge 7665

spores coal black

Clarkeinda

Pileus 3.2 cm, convex, viscid, margin striate, dresden brown on disc shadingto buckthorn brown; gills broad, subdistant, sinuate-adnate decurrent by a line, dark brown; stipe reticulate verrucose above thick persistent annulus, below fibrillouse reticulate with remains of partial veil, hollow, somewhat crooked, ending in bulb with somewhat filamentous gleified volva 9 cm x 5-9 mm

On earth near rotting log in potrero

Specimens examined

Costa Rica: San Jose, Finca de Alfredo Volio above Cabeza de Vaca 2700m Rancho Redondo, Doddge & Thomas 5371

Iglesias Valerionis

Pileus hemispheric, margin slightly inrolled 2.5 cm, clay color to cartridge buff at margin, smooth shining but not viscid; gills close, broad, sinuate adnate, olive brown; stipe slender, tapering do downward with bulb at base 55 x 4-5 mm white stained greenish(by algal growth?)
annulus collapsed about stipe, thin, black

Incow dung in potrero

Specimens examined:

Costa Rica: Heredia, Cerro Central de Zurqui 1530 m, Dodge, Valerio & Thomas 6135

Clarkeinda ?

Pileus broad umbonate 3 cm, campanulate, long, hairy, almost shaggy, edge long fimbriate, appendiculate, umbonate, mikado brown to tawny olive, splitting easily; gills broad guttulate free cinnamon brown, close; stipe cottony tomentose, white above cortinoid subevanescent annulus, below tawny olive, fibrillose, 9 cm x 5 mm ending in bulb with subgelatinous volva

So il near decaying wood

Specimens examined;

Costa Rica: San Jose, Rancho Recondo 2760 m, Dodge &Thomas 5336

Clarkeinda

Pileus 3.7 cm, convex with conical umbo, viscid with punctate remains of universal veil, tawny with massicot yellow margins, the latter tawny punctate from remains of veil; gills adnexed or sinuate adnate decurrent by a line old gold becoming purple brown, b broad, subdistant; stipe white punctate pruinose above the broad below squarrose scaly, fibrillose with lacerate persistent annulus,/a few light tomentose remains of partial veil ending in a small bulv with gelified volva which now includes particles of soil in the gel

Among grasses in potrero

Specimens examined

Costa Rica : San Jose, Guayabillos 2700 m Rancho redondo

Dodge Dodge & Thomas 5370

Clarkenda??

~~Istropharia~~

~~Collybia, Purple-spored~~

Psilocybe

Pileus expanded, convex, viscid after disapperance of shaggy, squamose, universal veil, russet disc, shading to antimony-yellow, 3.5 cm.; gills adnate, sinuate, ventricose, close; flesh thick on broad umbo, yellowish; stipe hollow, cartillaginous, shaggy, below remains of cortina, some of which remains attached to margin of pileus, russet after handling, bulbous,dirt clinging as a pseudovolva.

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 25-2650, Dodge & Thomas.

5160

Clitocybe

Pileus small, about 4 cm diam. disc viscit, smooth, clay color margin fibrillose, flat, flesh thin, cinnamon buff consisting of gelatinous pellicle, a compact watery layer with a subgelatinous layer beneeth , the flesh stipe layer extends up over the gills beneath the subgelatinous layer, while the cottony stuffing of the stipe fills the interior and is somewhat riddled by insects; gills adnate, margins serrate, eroded, ~~[illegible]~~ subfloccose, white; stipe covered with floccose scaly remains of veil, about 8 x 1 cm.

Specimens examined

Costa Rica: SanJose, Rancho Redondo, 2250 m, Dodge & Thomas 5020

Clitocybe nearBroadwayi

Pileus infundibuliform, 4 cm, striate, sulcate, margin slightly inrolled, tilleul buff; gills warm buff, decurrent, narrow, distant; stipe 4 cm x 5-4 mm white slightly tomentose

Costa Rica: Puntarenas, Osa, near Rio Terrones 5-20 m Dodge 7735

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Clitocybe

Pileus 3-4 cm, cinnamon brown topale ochraceous buff, plane, convex, umbilicate;margin faintly striate; gills pale ochraceous buff, narrow, close, decurrent; stipe 4 cm x 4 mm, concolorous

Costa Rica: Puntarenas, Osa, EsteroSandalo 5-20 m Dodge 7698

Clitocybe

Pileus flat with sharp umbo 15cm smooth, subtomentose, pinkish sinnamon, umbo sayal brown, x flesh thick, gills braod decur rent subdistant, thin, light pinkish cinnamon; stipe fleshy, 3.5 cm x 4 mm, light pinkish cinnamon, subtomentose

Among grasses in potrero 2260 m

Specimens examined:

Costa Rica: SanJose, Rancho Redondo, 2260 m. Dodge & Thomas 5266 mx

Galera

Clitocybe

Pileus 7 cm deeply infundibuliform, sulcate, russet shading to light buff; context very thin; gills decurrent, broad, subdistant, white with cadmium yellow edges; stipe short fleshy, hygrophanous, 2 x 1 cm

On decaying, mossy log

Specimens examined:

Costa Rica: San Jose, Rancho Redondo, 2400m Dodge &Thomas 5373

Clitocybe

Pileus & stipe antimony yellow; gills slightly decurrent, wh white.

Among grass in potrero

Specimens examined

Costa Rica: San Jose, Rancho Redondo, 2200m, Dodge & Thomas 5100

Clitocybe

Pileus convex, slightly umbillicate, white, subhygrophanous, 2.2 cm diameter, flesh white, thin except on disc; gills white, decurrent, broad, close; stipe tapering downward 2 cm x 3 mm fibrillose silky, hygrophanous, pruinose above

Rotten log

Specimens examined

Costa Rica: San Jose, Rancho Redondo 2300 m, Dodge & Thomas 5117

Clitocybe n sp.

Pilei cespitose, convex to flat, umbilicate,margin floccose, inrolled, 2.5 cm., white,hygrophanous with pale isabelline tints, smooth dull; gills decurrent,close, maize-yellow; stipe white, 2.5 cm. # 6 mm. fleshy.

Dead log.

Specimens examined:

Costa Rica, Limon, above Rio Siquirres, Alt. 140-200m.,Catt, Dodge & Thomas 5527

Clitocybe

Pileus densely cespitose, epixylous, convex, maring, umbilicate, smooth, chalky white, upto 5 cm diam. gills narrow, close decurrent white, stipe white smooth, equal, 2.5 cm x 3.5 mm

Rottinglog in bananal

CostaRica: Limon, Marta, 20 m. Dodge

Clitocybe nearest testaceoflava

Pilei densely cespitose, thereby distorted and stipe appearing eccentric to almost lateral but marginate behind; up to 3.5 cm diam. pinkish buff to pinkish cinnamon, umbilicate, flesh thick; gills very decurrent quite thin, comparatively narrow, appricot buff; stipe thick, fleshy distorted, seashell pink 1 cm diam about 1 cm long tapering slightly downward, flesh seashell pink or darker.

decaying log in bananal

Costa Rica: Limon, Marta 20 m., Dodge 7218 cf. Castilla 7-28-36.

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Clitocybe

Pileus deeply infundibuliform, coarsely striate sulcate to disc, anthracene purple, lighter on disc, becoming Verona brown with cinnamon buff disc, flesh tough, very thin, 6-12 cm.

Gills narrow, subdistant, decurrent, light vinaceous lilac

Stipe fleshy, tough, velvety, anthracene purple becoming Verona brown,

8cm. x 5-15mm. (very young)

7cm. x 9mm. (purple specimen)

4cm. x 10-12mm. (old specimen)

On decaying log

Costa Rica, Puntarenas prov., Osa, R. Sándalo, 1-5m. 2-24-36

Dodge & Goerger

Clitocybe

Pileus convex, deeply umbilicate, margin undulate and crimped, somewhat lacerate, orange rufous to Sanford brown, 4cm.
Gills white, subdistant, decurrent, narrow
Stipe 4cm. x4mm., compressed & irregular, contorted, dull, fleshy

Costa Rica, Puntarenas prov., Osa, R. Sándalo, 1-5m. 8-27-36
Lodge & Doerger

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Clitocybe n. sp. near 5117

Pileus infundibuliform, white, 3 cm., smooth

Gills decurrent, white, close, narrow

Stipe 3cm. × 3mm. above, tapering to 2.5 mm. below, white, silky

Costa Rica, Limon prov., Castilla Farm, 20m. 7-27-36

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Clitocybe near 7218

Pileus vinaceous-rufous, deeply infundibuliform, fibrillose, 1.3 cm. in diameter

Gills massicot yellow, narrow, crowded, decurrent

Stipe salmon buff, ~~xxxx~~, compressed, 3cm. x 5mm., slightly cottony

Leaf mould in palm forest

Costa Rica, Limon prov., Castilla Farm, 20m. 7-28-36

margin coarsely striate stipe bulbous C 5866 CX-

Lamellae adnate — COLLYBIA
- Pileus viscid or at least moist and glutinous
  - Pileus pure white — C. 7716
  - Pileus colored(9-19)
    - Stipe viscid — C. 9-11
    - Stipe shining — C. 5062
    - Stipe velvety or tomentose
      - Margin striate, pileus chestnut — C. 7-11
      - Margin smooth
        - Pileus 4 cm, Sanford brown to raw sienna; stipe 6 cmx2.5 m xanthine orange to Argus brown — C. 8-15
        - Pileus 2-2.5 cm, stipe short
          - Pileus ochraceous orange to Naple's yellow stipe 2 cm x 2 mm — C. 7-16
          - Pieleus amber brown to antimony yellow stipe 1.3 cm x 2.5 mm — C. 5308-5311 incl.
  - Pileus pale olive buff to white, merely glutinous, shining, margin striate over gills; stipe 3 cm x 4 mm silky, compressed — C. Nevermann
- Pileus velvety, tomentose, scaly or lacerate
  - Pileus lacerate, bars brown with prominent conical umbo — C. 7-10
  - Disc with pyramidal scales
    - Pileus Prouts brown, stipe tomentose — C. 7-11
    - Pileus onion shin pink, stipe silky — C. 7-25
    - Pileus light ochraceous salmon to russet, stipe floccose — C. 7-11
  - Pieleus tomentose scaly to floccose
    - Cuticle separable, pileus white
      - Stipe white — C. subflavescens Murr.
      - Stipe cinnamong buff with Saccardo's umber scales — C. 4471
    - Cuticle not separable
      - Plant wholly white, disc slightly depressed — C. 911
      - Pileus some shade of yellow or brown
        - Stipe white, soon blackening; pileus buckthorn brown on a warm buff background, margin sulcate striate — C. 8-21
          Pileus buffy brown, gills close narrow adnexed black spotted C 5368
        - Stipe yellow or brown
          - Gills white, distant, merulioid between, stipe silky buckthorn brown — ~~C. setulosus~~ C. 8-25 stipe setulose + isabelline C setulosus
          - Gills antimony yellow, crowded, narrow — C. 8-13
          - Gills Naples yellow, subdistant, broad — C. 8-22
            gills white to pale yellow distant merulioid between; stipe minutely squamulose yellow C chrysopeplus (B+C)

Pileus mahogany red to chestnut, umbonate, stipe white gills white with English red edge C 5028

[illegible] not [illegible] velvety
Pileus umbonate
Pileus mahogany red [illegible] to chestnut [illegible], gills [illegible] white with English red edges, adnexed [illegible] 8
Pileus wood brown to buffy brown darker on umbo, gills thick, white, adnexed subdistant C. 5532
Pileus ochraceous orange to antimony yellow, gills lemon yellow, adnate, close C. 8-23
Pileus antimony yellow to yellow ochre, gills white, adnate, crowded C. 5128
Pileus convex, not umbilicate
Pileus pinkish buff and cinnamon buff, stipe white above, chestnut or darker below C. 9-11
Pileus buckthorn brown or darker, stipe nearly black C. 9-11a
Pileus mars orange to burnt siena, stipe yellow ochre to black C. 8-7
Pileus umbilicate or at least flat with disc depressed
Stipe velvety, margins striate
Stipe burnt siena to chestnut, pileus auburn to orange rufous, gill medium spacing C. 8-23
Stipe Prout's brown, pileus vinaceous buff, gills subdistant C. 8-28
Stipe smooth, white except at base, margins not striate, gills close
Pileus Saccardo's umber to sepia C. 8-29
Pileus light brownish olive [illegible] C. 7-23, 8-6
Pileus auburn to apricot buff C. 7690
Pileus smooth, neither viscid nor velvety
Pileus white or nearly so, not differently colored on the disc, gills white
Pileus umbonate
Gills close, adnate, medium width, margin striate C. 9-11
Gills crowded very narrow C. 4643
Pileus convex to expanded, not umbilicate
Gills broad, adnate, pileus 4-8 cm sometimes fuldening C. albidulus Pat.
Gills narrow, pileus 1-3 cm, margin not striate
Gills adnexed, close; pileus 1-1.5 cm, stipe gray to fuliginous 2-3 cm x 1 mm C. muscicola
Gills adnate, subdistant, pileus 3 cm, stipe white compressed, 3.5 x 4 mm C. 7-29
Pileus flat, 4 cm, gills narrow, close, ventricose, nearly free, stipe white 12 cm x 4 mm C. 8-15
Pileus flat to convex, center depressed, 6 cm., gills broad, distant, adnate, stipe white becoming minutely velvety 6 cm x 4 mm C. 7-25
Pileus convex to flat, center depressed, 5-8 cm, gills narrow, crowded, nearly free, stipe isabella to testaceous rough with scales pointing upward, 3 cm x 3-4 mm C. Boryana
Pileus convex center deeply umbilicate, 1.8 cm, gills broad, close adnate, stipe white, 2 cm x 2 mm. C.7-30
Pileus some shad of purple, blue or green
Pileus deep azure (53), glabrous, gills broad, deep azure blue C. cyanocephalus
Pileus dusky green-gray(35''''')fibrillose, pellicle separable, gills narrow, white C. 7670
Pileus lime green (25'), disc tawny(13') or lighter, gills narrow white C. 4983
Pileus dull lavender to dark lavender, gills narrow, white C. 9-11

9. The School shall be administered by an ADMINISTRATIVE COMMITTEE of three sets of parents elected by a general meeting of all parents in January of each year to serve for one year.

The committee shall divide its work among its members as it sees fit.

Withdrawal by members of the committee of their child from the school automatically acts as their resignation from the committee.

In case of resignation from the committee, the remaining members shall elect successor members to serve until the next general meeting of parents.

The committee shall follow directions given by vote of the parents at any general meeting.

Action of the committee may be rescinded by vote of a general meeting of the parents.

10. GENERAL MEETINGS of the parents shall be held in September and January of each year and upon call of the committee.

11. These by-laws may be AMENDED at any time by vote of a general meeting of parents.

Collybia
of Hygrophorus (Eu Hygr)

Pileus viscid, white with a few brown patches of universal veil, 3 cm.,white;margin not striate, flesh very thin, almost membranous; gills broad, white, adnate, subdistant;stipe slender,cartilaginous, 3 cm # 2 mm.,tapering downward, smooth white; spores white

Specimens examined:

Costa Rica, Limon,Rose Hill above Rio Pacuare, Alt 100m.,Catt, Dodge, & Thomas 5503

Collybia

Pileus hemispheric, 1 cm, viscid, umbilicate with tiny umbo in depression, margin inrolled, old gold; gills crowded narrow adnate white or concolor; stipe viscid, 5 cm x 2 mm cartilaginous concolor

Heredia, Chahuites, 1600 m., Goerger 9-11-36

Collybia

Pileus viscid, expanded, slightly depressed, 6 cm, margin very slightly, coarsely striate, surface with dresden brown areolate remains of universal veil, cartridge buff shading to white margins; flesh watery; gills thick, subdistant, broad, white, sinuate adnate; stipe cartilaginous 3.5 x 4 mm, tough, equal ending in bulb 9 mm diam. silky shining.

On dead wood

Specimens examined:

Costa Rica: Cartago, Laguna de Bonilla Dodge, Catt & Thomas 5868

Collybia

(Pleurotus)

Pileus 5 cm, margin narrowly striate, smooth, white to vinaceous buff, dotted more or less concentrically with tufts of universal veil which are avellaneous in color; gills ventricose sinuate adnate with decurrent tooth, white subdistant; stipe central appearing lateral from position of growth, fleshy, 3 cm x 3 mm, white pruinose furfuraceous, base bulbous

Rotten branch on recently felled tree

SanJosé, R. Paquita, 2 m., Dodge & Goerger 8-14

Collybia

Pileus viscid, pure white, margin slightly striate, 4 cm; gills subdistant, broad, white, adnate; stipe somewhat fl shy, cartilaginous tapering downward 8 x 4-3 mm, white.

Same locality Aug 27 has floccose scales like Amanita on pileus, margins striate to disc stipe innate fibrillose 4 cm X 4 mm.

Costa Rica: Puntarenas, Osa, ~~Rx~~Estero Sandalo 5-20 m, Dodge 7716 Dodge + Goerger Aug 27.

Collybia

Pileus hemispheric, viscid, sulcate striate over gills, umbonate, umbo Dresden brown, 17 light cadmium, 19 striate with dresden brown, 2 cm., gills adnate, light cadmium, 19 subdistant, broad; stipe 11 cm x 3 mm., cartilaginous, viscid, light cadmium, 19 darker below.

Very cespitose

Heredia, Chahuites, 1600 m., Goerger 9-11-36

Collybia

Pileus expanded, striate, 4 cm. , Saccardo's umber, moist, subviscid; gills, white, crowded, adnate, nearly free, ventricose; stipe shining, tapering downward; pale chalcedony-yellow, cartilaginous, 3.5 cm. long, 5 mm. above, 3mm. below, fibrillose.

Mossy log in potrero, south of house.

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 2160-2180 m.

Dõage & Thomas, 5062

Collybia

Pileus up to 9 cm, watery, viscid, between wood brown and buffy brown, lighter on coarsely striate margin; gills broad, white, sinuate adnate, subdistant; stipe cartilaginous stuffed, white 4.5 cm x 5-7 mm surface dull equal with bulbous base 13 mm somewhat compressed.

Cespitose on dead wood

Specimens examined

Costa Rica:Cartago, Laguna de Bonilla, Dodge, Catt & Thomas 58629

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Collybia velutipes group

Pileus expanded, viscid, 3cm., margin striate, chestnut, slightly lighter at margin

Gills sinuate, adnate, ventricose, close, Naples yellow stained yellow ochre on edges

Stipe 2cm. x 3mm., dense, velvety tomentose, mummy brown or darker

Solitary on decaying log

Costa Rica, San José-prov., Rancho Redondo, 2150m. 7-11-36

Dodge & Goerger

Collybia velutipes group

Pileus 4 cm., nearly flat, margin striate, sulcate, surface viscid, disc Sanford brown, rest raw sienna; gills with small cross gills, adnate subdistant, mdeium width, baryta yellow; stipe velvety, 6 cm x 2.5 mm, tough, cartilaginous xanthine grange to Argus brown

San José, Paquita Hill, 15 m., Dodge & Goerger 8-15

Collybia velutipes group

Pilei up to 2.3 cm, viscid, disc ochraceous orange shading irregularly toNaples yellow, margin thin, smooth; gills ventricose, adnexed, subdistant, white; stipe cartilaginous fragile, velvety, cream above shading to mummy brown below, 2 cm x 2 mm,

Cespitose on decaying Erythrina post in front yard

San José, Guayabillos 2250 m., Dodge & Goerger 7-16-36

Collybia velutipes. ~~group~~

Pileus convex, 2 cm., viscid, amber-brown, shading to antimony-yellow, margin; flesh thin, yellowish; gills adnate, closeventricose; stipe cartilaginous, slender, velvety, Mars brown, shading to yellow above, 13 mm. long 2.5 mm. diameter, caespitose.

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 2300m. Dodge & Thomas 5308

Collybia velutipes group

Stipe caespitose, viscid with velvety tomentum.
Dead wood in potrero S. of House.

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt 2160-2180. Dodge & Thomas 5309

Collybia velutipes group

137A

Pileus viscid, lighter color; stipe much longer, less densely cespitose, less densely velvety.

Dead wood in potrero ~~S. of House~~

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 2160-2180 Dodge& Thomas, 5310

Collybia velutipes group.

Pileus viscid; stipe velvety; caespitose.

On dead wood in potrero S. of house.

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 2160-2180m.

Dodge & Thomas 5311

Collybia

Pileus flat, 5.5 cm, moist, almost glutinous, shining perhaps slightly fibrillose when dry, striate but not sulcate over gills, pale olive buff to white; gills adnate subdistant, ventricose, white; stipe 3 cm x 4 mm, cartilaginous, quite tough, silky, compressed.

In soil on creek on tram east of Guacimo bridge

Limon, Siquirres, Castilla, 20 m. F. Nevermann

Cpllybia

Pileus mars brown before laceration, conic expanded with prominent conic umbo, surface lacerate fibrillose, margin lacerate, 2.5 cm, 1 cm tall, gills adnate, white close,broad, stipe white 5 cm x 5 mm, tapering upward, very fragile

On soil in forest along quebrada
Sna José, Guayabillos, 2300 m., Dodge & Goerger 7-10

Collybia tenuipes group

Pileus hemispheric, 1cm., densely scaly with pyramidal tufts of hairs, Prout's brown

Gills adnate, white, subdistant, broad

Stipe tomentose, floccose, whitish above more or less concolorous or lighter, 2cm. x 1.5mm.

Costa Rica, San José prov., Guayabillos, potrero 2200m. 7-11-36

Dodge & Goerger

Collybia

Pileus 2.8cm., flat or very broadly umbonate; disc pyramidal, scaly, onionskin pink; lighter toward margin due to growth pulling the colored ~~hai~~ hair tufts further apart

Gills close, broad, sinuate, adnexed to nearly free white stipe, light ochraceous salmon, 3cm. x 3mm., silky

Costa Rica, Limón prov., Castilla farm, 20m. 7-25-36

Dodge & Goerger

Collybia

Pileus hemispheric, 3 cm, hygrophanous, disc decorated with pyramidal tufts of hairs, margin striate smooth, disc light ochraceous salmon, margin russet; gills subdistant, adnate, broad, white; stipe floccose light ochraceous salmon, becoming russet when handled, 3.5 cm x 5-7 mm, tapering upward

SanJosé, Guayabillos, 2200 m., Dodge & Goerger 7-11-36

Collybia near C. subflavescens. Murr.

Pileus campanulate, minutely scaly, cuticle separable, flesh 2 mm. on disc, thin at margin; gills narrow, crowded, nearly free; stipe slender, cartillaginous, stuffed, silky above, furfuraceous-scaly below, cinnamon-buff with Saccardo umber sclaes.

Specimens examined:

Costa Rica, Cartago, Pejivalle, Alt. 650-820, Dodge & Thomas

~~Alt.~~ 4471

Collybia

Pileus white, hemispheric, 1 cm disc slightly depressed, and scaly, rest fibrillose spongy; gills broad, adnate, white, close, stipe 4 cm x 2 mm, white cartilaginous, hollow

Heredia: Chahuites, 1600 m., Goerger 9-11-36

Collybia A near C. STR 2.

Pileus up to 4 cm in diameter convex to irregularly expanded, sulcate over gills, surface tomentose scaly, buckthorn brown on a warm Buff background, margin irregular; gills very distant and broad, white more or less watersoaked, adnate; stipe short, 2 cm x 2.5 mm, hygrophanous white soon blackening, cartilaginous

On decaying stick

Puntarenas, Osa, R. Sándalo, 2 m. Dodge& Goerger 8-21

Collybia

Pileus tomentose, buffy brown quickly blackening, convex up to 3 cm diam; gills adnexed, close white, soon blackening in spots narrow; stipe flattened, subterete below tomentose pruinose, black 5 cm x 5 mm

Specimens examined:

Costa Rica: San Jose, Rancho Redondo Dodge & Thomas 5368

Collybia

Pileus 3 cm, flat strigose velvety disc mars brown to mummby brown to buckthorn brown, margin very slightly coarsely striate; gills distant, broad white more or less merulioid between, adnate; stipe cartilaginous tough, buckthorm brown, silky, 4 cm x 2 mm.

Puntarenas, Osa, R. Sandalo, 2 m. Dodge & Goerger 8-25-36

Collybia nearest C. setulosus (See painting 4472)

Lamellae narrow, crowded, nearly free, prominently umbonate, gibbous.

Specimens examined:

Costa Rica, Cartago, Pejivalle, Alt.650-800m. Dodge & Thomas 4472

Collybia

Pileus 2-3 cm, convex to haerly flat, surface tomentose, short, margin even, disc buckthorn brown shadingthrough yellow ochre to antimony yellow, subhygrophanous; gills growded, narrow, anitmony yellow stipe yellow ochre, cartilaginous tough, slightly velvety above, very faintly fibrillose, 2 cm x 2 mm

On very rotten log

San José, R. Paquita, 3-5 m., Dodge & Goerger 8-13

Collybia

Pileus 1.5cm., spongy, tomentose; disc ochraceous orange; rest Naples yellow, ~~xxxxxxxxxx~~

Gills adnate, broad, subdistant, Naples yellow

Stipe 3.5cm. x 1.5mm., slightly bulbous ~~xxxx~~ below and above, Naples yellow above, deeper below

Costa Rica, Puntarenas prov., Osa, R. Sándalo, 1-5m. 8-22-36

Dodge & Goerger

Collybia
Marasmius cf Berteroi
haematocephalus

Pileus 3.5 cm. , campanulate with prominent, rounded umbo, velvety,tomentose, almost membranous, mahogany-red with umbo bay to chestnut; gills very broad, adnexed, waxy-white with English red edge; stipe hollow, fragile, white, shading to bay below; stipe 9 cm. # 3.5 mm.

Under Quercus

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 2250m., Dodge & Thomas 5028

Collybia?

Pileus hemispheric, margin inrolled, conic umbonate, umbo disappearing in age, hygrophanous, umbo ochraceous orange, rest antimony yellow, very minutely velvety; gills adnate, close, narrow, lemon yellow stipe cartilaginous tough, 2 cm x 1.5 mm lemon yellow, silky fibrillose

Puntarenas, Osa, R. Sándalo, 2 m. Dodge & Goerger 8-23-36

Collybia

Mycena

Pileus 2.5 cm.,convex,very slightly umbonate,slightly velvety,wood-brown to bufy-brown, slightly darker on the umbo;gills adnexed, thick,white,subdistant;stipe white, slender,cartilaginous,a compressed 2.5 cm ✱ 2 mm.

Dead wood.

Specimens examined:

Costa Rica, Limon,above Rio Siquirres,Alt. 300m.,Catt, Dodge & Thomas 5532

Collybia near chrysopeplus

Pileus expanded, slightly umbonate, antimony yellow to yellow-ochre, velvety to very minutley verrucose, margin crisped, thin; gills white, crowded, broad adnate; stem ochraceous-buff, 3 cm. # 4 mm.

Potrero

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 2550m. Dodge & Thomas 5128

Collybia

Pileus hemispheric to convex, 2 cm, hygrophanous, minutely velvety disc merulioid, pinkish buff and cinnamon buff; gills white, adnate, sudistant, narrow to medium; stipe cartilaginous up to 7 cm x 1.5-1 mm tapering downward, white above, chestnut or darker below, base with yellowish cottony tomentum, fibrillose

Heredia, Chahuites, 1600 m., Goerger 9-11-36

Collybia

Pileus convex, 4.8 cm, buckthorn brown, disc ~~xxxxx~~ darker, very minutely velvety, deeply striate sulcate over gills, almost membranous, gills white, distant, adnate broad; stipe 7.5 cm x 3.5 mm cartilaginous tough, nearly black

Heredia, Chahuites 1600 m., Goerger 9-11-36a

Collybia [illegible]

Pileus broadly campanulate, velvety, very broadly and shallowly sulcate striate, mars orange to burnt sienna, gills adnexed, practically free, white distant broad; stipe cartilaginous tough, yellow ochre above, shading through chestnut to black, silky smooth

Heredia, Sto Domingo de Sta Barbara, 1800 m., Dodge & Goerger 8-7-36

Collybia velutipes group

viscid or velvety?

Pileus 4,5cm., flat or margins inrolled, striate sulcate halfway to disc which is auburn, shading to orange rufous

Gills connected by merulioid cross ridges, sinuate,adnate to nearly free, broad, medium spacing, lemon chrome

,Stipe velvety, cartilaginous, tough, 4cm. x 3-5mm., burnt sienna to chestnut

viscid after.
[illegible] after C828.

Costa Rica, Puntarenas prov., Osa, R. Sándalo, 1-5m. 8-23-36

Dodge & Goerger

Collybia

Pileus 2.5 cm., expanded, deeply umbilicate and striate, minutely tomentose velvety, vinaceous buff, margin crisped; gills broad, sinuate adnate, subdistant, pale cinnamon pink;stipe velvety, 2 cm x 2 mm. Prout's brown

Puntarenas, Osa, Q. Huaca, 5 m., Dodge & Goerger 8-28

Collybia cf 5128

Pileus flat, deeply umbilicat, minutely velvety, disc Saccardo umber, rest sepia, margins whitish, not striate, gills close

narrow thick adnate white; stipe cartilaginous, semipellucid, white smooth, 1.5 cm x 2.5 mm

Puntarenas, Osa, R. Terrones 5 m,, Dodge & Goerger 8-29-36

Collybia
Omphalina

Pileus up to 3 cm, deeply umbilicate, light brownish olive in depression, margin cream buff to isabelline, very minutely tomentulose, otherwise smooth, margin not striate although appearing so from the gills underneath in certain lights; gills white, narrow, very close, sinuate decurrent by a tooth; stipe white shading to isabelline 2.5 cm x 4-2 mm tapering downward

Limon, Siquirres, Castilla, 20 m., Dodge & Goerger 7-23

Collybia

Pileus flat with margins inrolled above, 2cm., slightly tomentose, very moist, light brownish olive shading to white somewhat irregularly
Gills adnexed, very narrow and crowded, white
Stipe white, cartilaginous, 5cm. x 2.5mm., slightly smoky below

very caespitose

On rotten log in forest

Costa Rica, Heredia prov., Sto. Domingo del Roble, 8-6-36
Dodge & Goerger

Collybia

Pileus up to 4 cm, margin inrolled, surface fibrillose velvety, disc depressed, auburn shading to apricot buff; gills adnate, decurrent by a tooth, close, white; stipe cartilaginous to slightly fleshy hollow, curiously contorted distorted, 4 cm x 4-5 mm, fibrillose silky pure white.

Costa Rica: Puntarenas, Osa, Puerto Jimenez Dodge 7690

Collybia

Pileus 2.5 cm. cartridge buff umbonate, margin finely striate, moist gills close, adnate, white, medium width; stipe 5.5 cm x 5 mm, concolor cartilaginous, hollow, fragile.

heredia, Chahuites, 1600 m., Goerger 9-11-36

Collybia (new) Bonana group

Pileus cespitose, campanulate, umbonate, white or nearly so, flesh smooth, thin; gills very narrow, crowded; stipe long slender, sveral often coalescing to form a pseudo-branched stipe; disc lightly tinged with brown.

Specimens examined:

Costa Rica, Cartago, Santiago, Canon Reventazon, Alt. 1020m.

Doage & Thomas 4643

C Collybia near albidulus.Pat.

On log over drainage ditch.

Specimens examined:

Costa Rica, San Jose, San Pedro de Montes de Oca, Alt. 1200

Dodge & Thomas 4495

Collybia cf C[illegible]

Pileus up to 3 cm, expanded, pure white, margin irregular very thin not stiate; gills white, adnate, subdistant, narrow; stipe 2.5cm. x 4 mm, compressed, white cartilaginous

Decaying log

Limon, Siquirres, Castilla, 20 m., Dodge & Goerger 7-29

Collybia

Pileus 4cm., flat, almost membranous, coarsely wrinkled, white or very slightly pinkish; margin faintly striate

Gills close, narrow, ventricose, free or very slightly sinuate adnexed, white

Stipe 12cm. x 4mm., hollow, cartilaginous, fibrillose, cottony white

On leaf mould

Costa Rica, San José prov, Paquita hill, 20m. 8-15-36

Dodge & Goerger

Collybia albidulus group

Pileus convex, center depressed, 6 cm in diameter, deeply sulcate striate from splitting over gills, cartridge buff, gills broad, ~~xx~~ distant, white, adnate, stipe white, minutely velvety 6 cm x 4 mm

Limon, Siquirres, Castilla, 20 m., July 25 Dodge & Goerger

Collybia *muscicola group*

Pileus 1.8 cm, white, center deeply umbilicate, convex, smooth; gills adnate, broad, close white
stipe cartilaginous white 2 cm x 2 mm.

Decaying log

Bimon, Siquirres, Siam, 20 m. Dodge & Goerger 7-30-36

Collybia near cyanocephalus

Pileus 5 cm, surface fibrillose, moist, pellicle separable, margin deeply lacerate, dusky green gray; gills narrow, crowded subdecurrent, white; stipe concolor, smooth, 4 cm x 4 mm, hollow

Costa Rica: Puntarenas, Osa Estero Sandalo 2-20 m, Dodge 7670

Collybia

Pileus expanded, thin up to 5.5 cm. lime-green with disc tawny or lighter, somewhat tawny where bruised, subhygrophanous; flesh very thin; gills, narrow, crowded, concolor; stipe silky, concolor, becoming tawny where bruised, up to 5-6 cm. long.

Dead log.

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 2300m. Dodge &Thomas 4985

Collybia

Pileus dull lavender to almost dark lavender, hemispheric to expanded with fine anastomosing striae except on disc, 2 cm. gills adnate, close, narrow, white or nearly so; stipe 7 cm x 2.3 mm, cartilaginous hollow, very minutely velvety, concolor, dull lavender

Heredia:
Chahuites, 1600 m., Goerger 9-11-36

Collybia near nigrita

Pileus convex, expanded to irregular, up to 4.5 cm., bistert to black above, hygrophanous, margin thin, smooth; gills adnate, white, blackening where bruised, close ventricose; stipe cartilaginous up to 3.5 cm # 3.5 mm., furfuraceous, pruinose-buff but quickly blackening, hollow.

Potrero S. of House

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 2160-2180. Dodge & Thomas 5307 Simon

Rose Hill above Rio Pacuare Dodge Catt Thomas et al.

Puntarenas: Osa, R. Terrones 2 m Dodge

Collybia

Pileus 3 cm, cinnamon rufous, umbo large, margin upturned, slightly lacerate, gills adnexed tofree, white, crowded, broad; stipe cartilaginous, 5 cm x 2 mm, white above, fibrillose, cinnamon rufous or lighter below

Costa Rica: Puntarenas, Osa, Estero Sandalo 5-20 m Dodge 7732

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Collybia

Pileus 2cm., convex, broadly umbonate, pale ochraceous salmon; marhin
Margin somewhat lighter, innate fibrillose, striate
Gills white, narrow, crowded, adnate
Stipe 7-8cm.x 2-3mm., pruinose, white

Costa Rica, Limón prov., Castilla farm, 20m. 7-23-36
Dodge & Goerger

Collybia

Pileus up to 3.3 cm, convex, slightly umbonate, honey yellow wholly, margin striate; sills white, close adnexed, narrow; stipe cartilaginous, compressed, 7 cm x 3 x 1.5 mm, white.

Costa Rica: Puntarenas, Osa near R. Terrones, 20-30 m, Dodge 7671

Collybia near cinchonensis

Pileus 2.5 cm with deeply depressed, slight umbo, deeply striate sulcate, tilleul buff; gills adnate-adnexed, distant, medium, tilleul buff; stipe pruinose, fibrillose, 6 cm x2.5 mm

Costa Rica: Puntarenas, Osa, near R. Terrones 10 m Dodge 7696 near Estero Sandalo 5-20 m, Dodge 7685, 7733; nearPuerto Jimenez 5-20 m, 7642; Cerro Guaca Dodge 7639

Collybia

Pileus vinaceous fawn, 3 cm, expanded, faintly umbonate, striate, hygrophanous; gills adnate broad, subdistant, paler than pileus; stipe 5.5 cm x 3.5 mm, cartilaginous hollow, silky fibrillose

Heredia, Chahuites, 1600 m., Goerger 9-11-36

Collybia

Pileus broad campanulate, subconic, 3 cm in diameter, 1.5 cm tall, striate sulcate, smooth, dry, disc mummy brown or darker, shading to buckthorn brown, gills subdistant, adnate, broad, mustard yellow to Naples yellow, edges smooth; stipe 4 cm x 3-5 mm tapering upward, cartilaginous tough, velvety, raw sienna above to raw umber below

Decaying stick in bananal

San José, R. Paquita, 2 m., Dodge & Goerger Aug. 14

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Collybia

Pileus broad, campanulate, 1.5 cm, hygrophanous, pinkish buff with mars brown margin, smooth, fibrillose, flesh thick on disc, thinning rapidly, white; gillas white at first becoming pinkish cinnamon, adnate, close very narrow; stipe cartilaginous, hollow, silky fibrillose, white hygrophanous.

SanJosé, Guayabillos, 2300 m., Dodge & Goerger 7-7-36

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Collybia

Pileus 3-4cm., campanulate, expanded, moist but not truly viscid; disc cinnamon brown to ochraceous tawny; margin not striate; smooth flesh very thin

Gills close, narrow, adnate, light ochraceous buff

Stipe 11-12cm. x 2mm., Hessian brown, smooth, cartilaginous, lower 3cm. of base clothed with whitish tomentum

Caespitose in decaying leaf mould, in forest along quebrada

Costa Rica, San José prov., Guayabillos, 2300m. 7-10-36

Dodge & Goerger

9-11½
140

Collybia

Pileus convex, 1.5 cm, disc chestnut shadingto cinnamon rufous margin, inrolled; gills adnate, close, broad, citrine yellow; stipe cinnamon rufous 3 cm x 2-1 mm tapwering downward

Rotten log

Costa Rica:limon, Marta 20 m. Dodge 7253

Collybia

Pileus whitish, tawny on disc, slightly hygrophanous, diameter about 1 in. on largest; gills narrow, close, attached to stipe, flesh thin; stipe thin, brittle, slightly porous.

In clusters on wood in jungle

Specimens examined:

Costa Rica, Cartago, Pejivalle, Alt. 680-800 m. Dodge & Thomas 4427

Hiatula
Collybia

Pileus expanded, 5 cm, very thin, russet with darker disc and lighter margin which is broadly stiate sulcate; gills adnate, sinuate, ventricose, thick, subwaxy, tilleul buff, spores white, stipe hollow, cartilaginous silky russet, 2.5 cm s 3.5 mm ending in bulb up to 7 mm

On log by roadside

Specimens examined:

Costa Rica: San Jose, Rancho Redondo 2300-2350 m Dodge & Thomas 5387

Collybia

Pileus convex, 2.5 cm[watersoaked and old] margin smooth sulcate striate to disc, russet shading to tawny or lighter; gills broad, adnate pale ochraceous salmon, stipe ochraceous salmon, 4 cm x 2 mm, equal, cartilaginous

Cespitsose on very rotten log, forest along quebrada

San José, Guayabillos, 2300 m., Dodge& Goerger 7-10-36

Collybia

Pileus expanded, cespitose up to 6 cm, irregularly gibbous, mars brown or russet on disc, hygrophanous, striate sulcate, color deeper over gills, margin irregular, sinuate white; flesh thin; gills ventricose, adnate with decurrent tooth, subdistant white; stipe white above, pale cinnamon pink below, pruinose toward base, up to 5 cm x 4 mm.

Cespitose on very rotten log

SanJosé, Guayabillos, m., Dodge & Goerger 7-10-36

Collybia

Pileus convex, hygrophanous, striate over gills, 3cm.; disc light vinaceous cinnamon; rest Mikado brown; margin irregular

Gills distant, white, adnate to collar about stipe

Stipe pruinose above, cartilaginous, hollow, 2mm. diameter x 4cm., light vinaceous cinnamon

Costa Rica, ~~Sanxjuan~~ Puntarenas prov., Osa, R. Sándalo, 1-5m. 8-21-36

Dodge & Goerger

Collybia
Tricholma

Pileus hemispheric to expanded, margin unrolled as in Lactarius, surface smooth, moist, ochraceous-tawny with cinnamon-brown ~~discs,~~ flesh pale-buff, thick on disc, thin at margins, floccose; gills sinuate, adnexed, ventricose, white, close; stipe separable from flesh, hollow, cartilaginous, citrine-yellow within, white above, ochraceous-tawny below.

On stump.

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt.2500 m. Dodge & Thomas 4996

Collybia

Pileus convex to nearly hemispheric, 2.5 cm striate sulcate on margin along gills somewhat hygrophanous, center Sayal brown rest light pinkish cinnamon, gills distant, adnate broad; stipe 6 cm x 2.5 mm, tapering downward, vinaceous buff

Limon Siquirres, Castilla, 20 m., Dodge & Goerger 7-25-36

Collybia

Pileus 3 cm expanded convex, margin short striate, thin, slightly lacerate, Naples yellow, shading to white; gills adnate, close,narrow white; stipe 3 cm x 2.5 mm, white cartilaginous

Decaying log

~~[illegible]~~,
Limon, Siquirres, Castilla, 20 m., July 29 Dodge & Goerger

13" x 15"

149

Collybia

Pileus 2.5cm., hygrophanous; margin striate sulcate, expanded; disc vinaceous cinnamon shading to pale cinnamon pink; margin white, somewhat undulate

Gills ventricose, adnexed, subdistant, white

Stipe cartilaginous, white, 3.5cm. x 2.5mm., hollow

Costa Rica, Puntarenas prov., Osa, R. Sándalo, 1-5m. 8-21-36

Dodge & Goerger

15-17
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150

Collybia oculatus group ear 4427

Pileus varying from 1.5-5 cm diam, moist, hygrophanous, disc tawny to Mars brown, margin light buff, striate or sometimes whole pileus pinkish cinnamon; gills adnate, subdistant, narrow, white, stipe 3-15 mm x 2-4 mm, smooth, tawny to pinkish cinnamon

Gregarious to cespitose

CostaRica:Puntarenas Osa, near R. Terrones 30 m, Dodge 7668

17'-21
157

Collybia

Pileus hygrophanous, up to 3cm., margin faintly striate; disc yellow ochre, rest wax yellow

Gills crowded, narrow, adnate to very slightly decurrent, amber yellow

Stipe cartilaginous, tough, silky, wax yellow, 4cm. x 1.5mm., on buttress roots of standing tree in forest (see photo)

Costa Rica, Puntarenas prov., Osa, R. Sándalo 8-22-36

Dodge & Goerger

Collybia

Pileus flat, irregular 5.5 cm, margin striate sulcate, lighter center, avellaneous to vinaceous buff; gills subdistant, adnate, broad, white stipe compressed, white cartilaginous 5 mm above taperingto 2 mm below 7 cm long

Limon, Siquirres, Castilla, 20 m. Dodge & Goerger 7-25

3 C-13
154

Collybia near C. oculatus
C. monticola

Pileus 3 cm.., smooth, pale ochraceous-salmon with russet umbo, margin sulcate, striate; flesh very thin, white; gills white, adnate with decurrent line, broad; stipe concolor or darker with cottony white mycelium, slender equal 4 cm. long, 3 mm. diameter.

No agrees with above but pileus depressed slightly umbilicate gills adnexed without decurrent line, ventricose, stipe 8 cm long 4 mm diam

Specimens examined:

Costa Rica, Cartago, N.W. slope La Carpintera, Alt. 1550 m.

Dodge & Thomas, 4810

Puntarenas: Osa, Rio Sandoval 5-20 m Dodge

Collybia

Pileus 5 cm, flat then edges upturned, moist not viscid, deeply sulcate striate over gills, disc between mummy brown and dresden brown shading ~~lighter~~ to light buff, semipellucid, margins; gills rather thick, edges eroded, white, adnate, broad; stipe cartilaginous hollow, 7 cm x 4-2 mm tapering downward, Sayal brown except 1 cm at apex which is white

SanJosé, Santana, cañon R. Uruca, Dodge & Goerger 9-8-36

Collybia

Pileus 2.2cm., center depressed, striate sulcate to disc, warm buff to light buff margin

Gills subdistant, adnate, broad, white

Stipe 1.2cm. x 1-1.5mm., tapering downward, cartilaginous, concolorous above, deeper below

On decaying liana

Costa Rica, Puntarenas prov., Osa, R. Sándalo, 1-5m. 8-21-36

Dodge & Goerger

13" 17"

157

Collybia

Pileus very thin, 4 cm, plane, slightly umbilicate, margin sulcate, wood brown shadingto fawn disc; gills narrow, crowded, adnate tilleul buff; stipe tough, catilaginous, 6 cm x ~~x~~ 2 mm, white, cottony over fawn or darker.

Costa Rica: Limon, Castilla 20 m, Dodge 7213

13" m - 13 x

158

Collybia

Pileus 1.8cm., center depressed, margins elevated, sulcate striate, smooth; diac warm sepia, rest Verona brown

Gills adnexed to almost free, ventricose, white, close

Stipe cartilaginous, 2cm. x 1-1.5mm., tapering downward, white above, concolorous below

Costa Rica, Puntarenas prov., Osa, R. Sándalo, 1-5m. 8-21-36

Dodge & Goerger

13 - 17 A
159

Collybia

Pileus very irregularly expanded, margins upturned and inrolled crisped, center depressed and umbilicate mikado brown to pinkish buff, striate, sulcate over gills, 7 cm in diameter; gills broad, distant, a adnate, pinkish buff; stipe hollow cartilaginous innate fibrillose striate, mikado brown or lighter 5 cm x 8 mm.

Puntarenas, Osa, R. Sándalo 2 m., Dodge & Goerger 9-1-36

Collybia

Pileus flat to slightly umbilicate with irregularly upturned margins, striate over gills to disc, 2 cm, disc mikado brown, rest light vinaceous cinnamon, striate with Mikado brown; gills adnate to thickened apex of stipe but appearing free, white narrow close; stipe 4 cm x 1.5 mm, hollow cartilaginous tough, mikado brown, smooth

Under Chusquea

SanJosé, Santana, cañon of R. Uruca, Dodge & Goerger 9-8-36

Collybia

Pileus 5 cm, depressed, disc hazel shading to antimony yellow margin which is rugosestriate, hygrophanous; gills thick, broad, interveined sinuate; stipe cartilaginous, hazel tapering downward, heavily tomentose 4 cm x 4-2 mm

In virgin forest

Costa Rica:Limon, Waldeck 40 m, Dodge 7281

162

Collybia

Pileus 2.3cm., flat, center depressed; margin striate over gills, cinnamon rufous to apricot buff

Gills distant, narrow, adnate, apricot buff

Stipe 2cm. x 2mm., cartilaginous, hollow, smooth, apricot buff

Costa Rica, San José prov., cañon of R. Uruca near Sta Ana, 9-8-36

Dodge & Goerger

Collybia, large watery
?Hygrophorus. (see field notes on spec. same locality Nov. 6

On dead log in potrero south of house

Costa Rica: San José Province, Rancho Redondo 2180-2200 m.,

Dodge 5158

Collybia or n. gen.

Pileus 4cm., convex to expanded, striate margin; disc pecan brown shading to buff pink; margin white

Gills white, narrow, crowded, free

Stipe cartilaginous, white above, buff pink to ochraceous buff below, 6cm. x 2mm., when mature, young stipe shorter and tapering upward

Caespitose on leaf mould

Costa Rica, San José prov, cañon of R. Uruca below Sta. Ana 9-8-36

Dodge & Goerger

Collybia
New Genus, free gills.
Mycena?

Stipe cartilaginous, stuffed, flattened, 4cm. long # 5 mm. white.

Mossy log

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 2300, Dodge & Thomas 5261

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Collybia but gills free

Pileus dresden brown disc mummy brown, campanulate, 2 cm in diam. 1.2 cm tall, innate fibrillose margin narrowly and very slightly striate, not sulcate; gills free, close white narrow
stipe cartilaginous compressed, splitting hygrophanous, brown scaly at apex, 4.5 cm x 2 mm, white

Palm forest

Limon, Siquirres, Castilla, 20 m., Dodge & Goerger 7-28-36

Crepidotus n.sp.

Pilcus up to 8mm., surface densely fibrous, scaly, margin lacerate, extending beyond gills, between ochraceous tawny & buckthorn brown
Gills concolorous or ~~[illegible]~~ darker, broad, ventricose, edge eroded or appearing so from remains of veil, adnate, subsinuate
Stipe lateral, 0.3cm. x 1mm., fibrous, tomentose, lighter.

On decaying wood in forest along quebrada

Costa Rica, San José prov., Guayabillos, 2300m. 7-10-36
Dodge & Goerger

Crepidotus

Pileus up to 3 X 6 cm., dimidiate "conic" becoming flattened, floccose, russet, tomentose which finally shows as ± pyramidal scales, moist, buckthorn brown margin smooth crisped mage
Gills ventricose, decurrent, white becoming wood brown

on Eucalyptus

Costa Rica, San José prov., Guayabillos 7-16-36

Dodge & Goerger

Crepidotus

Pileus dimidiate, 2.5 X 1.5, densely strigose with russet hairs especially towards margin

Stipe lateral, gills decurrent, ventricose, white to flesh pink.

Decaying bark on log along quebrada

Costa Rica, San José prov., Rancho Redondo, 2250m. 7-15-36

Dodge & Goerger

Crepidotus

Pileus dimidiate, light drab, spongy tomentose; margin smooth, gills purple brown, close, narrow, adnate to point of attachment stipe very short and small; pileus marginate behind

On decaying Heliconia

Costa Rica, Puntarenas prov., Osa, R. Terrones, 1-5m. 8-29-53

Dodge & Goerger

Ge idotus

Pileus convex, hemispherate, white, 1.5cm.

Gills brown, subdistant, broad

Costa Rica, Puntarenas prov., Osa, R. Sándalo, 1-5m. 9-22-30

Lodge & Goerger

Crepidotus

Pileus flabelliform, cespitose, marginal behind; margin striate, hygrophanous (collected after rain), pale drab gray

Gills narrow, close adnate, buffy brown

Stipe short, pellucid, eccentric

On decaying pal

Costa Rica, Punt renas prov., Osa, R. Sándalo, 1-5m, 8-25-36

Dodge & Goerger

a lar[illegible] or n. gen.

Pileus up to 2cm., convex becoming flat, hygrophanous; margin striate, very thin, smooth, cinnamon to pinkish buff

Gills subdistant, white, narrow, adnate

Stipe cartilaginous, fraginle, 1.2cm. x 2mm, with a small, fragile ring, pinkish buff

Costa Rica, San José prov, Rancho Redondo, 2500m. 7-14-[illegible]

Dodge & Goerger

Galera Mycena pyringens?

Pileus campanulate, fibrillose, 8mm. x 8mm., pale buff; flesh thicker on disc, white

Gills close, narrowly adnate, narrow, deep lavender

Stipe cartilaginous, deep lavender within (upper half) white below, lavender above, buff below, 3cm. x 3mm.

On mossy bank

Costa Rica, San José prov., Rancho Redondo, 2150m. 7-13-56

Dodge & Goerger

Galera

Pileus 1cm., avellaneous fading to tilleul buff; margin very slightly striate, thin

Gills close, narrow, adnate, avellaneous

Stipe 1cm. x 1mm. or less, silky, avellaneous or darker

On fallen fruit of Theobroma (small, spherical with broad ribs)

Costa Rica, Limón prov., Castilla farm, 20m. 7-25-36

Dodge & Goerger

Galera

Pileus hemispheric to campanulate, 1.5 cm, disc prouts brown, margin ochraceous tawny, 1 cm tall, margin striate; gills ochraceous adnate, close, broad, stipe 7 cm x 2 mm, concolor or lighter, cartilaginous fragile, smooth

Heredia
Chahuites, 1600 m., Goerger 9-11-36

Collera

Pileus 1-1.5 cm., flat or center somewhat depressed with prominent conical umbo hygrophan, umbo antimony yellow, rest warm buff with striate ochraceous tawny margin.
Gills broad, adnate to very slightly decurrent, subdistant, Sudan brown
Stipe 1cm.x 1.5mm., bay above, whitish cottony below
(Young specimens in killing fluid)

On fern roots.

Costa Rica, San José prov., San Pedro de Montes de Oca, 8-3-16
Nevermann & Goerger

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Geopetalum copulatum ??
Crepidopus

Pileus cuneate, 4 cm x 4 cm, crisped finally splitting, lobes about 7 mm broad, white, margins striate, gills broad, close, decurrent white stipe very short, 5 mm at point of attachment

Limon, Siquirres, Castilla, July 23, Dodge & Goerger

Geopetalum

Pileus flabelliform, 2 cm, smooth, white, hygrophanous, margin striate, lobes 3 mm x 5 mm long; gills, decurrent along point of attachment which is 5 mm long and wide

Limon, Siquirres, Castilla, Dodge & Goerger 7-25-36

Hygrophorus

Pileus umbilicate, convex, 5 cm in diameter, dragons blood red fading to terra cotta, dry; gills waxy white, subdistant, sinuate adnate, broad; stipe compressed, 5.5 cm x 10-6 mm, light cadmium to lemon chrome, cartilaginous hollow

In soil in forest

Puntarenas, Osa, R. Sándalo, 2 m. Dodge & Goerger 8-25-36

Hygrophorus

Pileus convex, 2 cm. viscid(?) slightly depressed incenter and lighter, coral red; gills white,waxy,sinuate adnate with decurrent tooth broad; stipe viscid, 4.5 cm x 3 mm cartilaginous light cadmium, semipelluc id

Puntarenas, Osa, R. Sándalo, 2 m., Dodge & Goerger 8-27-36

Hygrophorus

Pileus viscid, flat, margins very irregularly elevated, white, rest coral pink; gills thick waxy, edges eroded broad, subdistant, white; stipe cartilaginous semipellucid coral pink, 3 cm with thickening suggesting a ring about 1 cm below apex, 4-5 mm tapering downward

Puntarenas, Osa, R.Sándalo, 2 m., Dodge & Goerger 8-24

Hygrophorus

Pileus 3 cm, expanded to flat, disc eventually lacerate, viscid margin slightly striate, Corinthian red shading to Corinthian pink; gills thick, white, broad, close,adnexed; stipe pellucid above cortina, Corinthian pink below white cottony becoming vinaceous tawny where handled wholly viscid, 4.5 cm x 5 mm

Cespitose in soil

Puntarenas, Osa, R. Sándalo, 2 m., Dodge & Goerger 9-1-36

Hygrophorus

Pileus convex, viscid, 2 cm deep vinaceous, lighter at margin; gills waxy white, broad close apparently free[but somewhat eaten] stipe white pruinose above, viscid below where handled, concolor, 3 cm.x 4 mm.

Puntarenas, Osa, R. Sándalo, 2 m., Dodge & Goerger 8-27-36

Hygrophorus

Pileus 1.7 cm., very viscid, margin thin almost white, deep chrome striate to disc which is grenadine red; gills xxx waxy, subdistant,adnate white; stipe viscid to apex, cartilaginous shining 4 cm x 2 mm, grenadine red above shadingto deep chrome

Puntarenas, Osa, R. Sándalo, 2 m., Dodge & Goerger 8-21-36

Hygrophorus

Pileus viscid, 1.5 cm., convex, umbilicate, striate to disc. Nopal red, margins white or nearly so; gills subdistant, waxy light orange buff, adnate; stipe cartilaginous, viscid, 3 cm x 2 mm, cadmium yellow

Puntarenas, Osa, R. Sándalo, 2 m., Dodge & Goerger 8-27-36

Hygrophorus

Pileus convex, 1.3 cm, slightly spongy tomentose, scarlet red, gills thick, waxy, white adnate with decurrent tooth; stipe 4 cm x 33 mm fleshy, silky, cadmium yellow or lighter

Puntarenas, Osa, R. Sandalo, 2 m., Dodge & Goerger 8-24-36

Hygrophorus

Pileus convex 1.5 cm in diam, viscid, spectrum red, margin undulate more or less lacerate, not striate; gills white, waxy, broad, subdistant, slightly decurrent, edges eroded; stipe cartilaginous, viscid, scarlet, 4 cm x 2 mm.

Puntarenas, Osa, R. Sándalo 2 m., Dodge & Goerger 9-1-36

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Hygrophorus

pileus 3.5 cm, center depressed, margins irregularly elevated, viscid center wax yellow, margins ochraceous orange; gills broad, adnate, subdistant, amber yellow to straw yellow; stipe color of gills, viscid, cartilaginous, hollow, compressed, semipellucid, 6 cm x 8 mm.

Specimen same locality Aug. 25, pileus 4.5 cm, irregularly expanded, margin very faintly striate, wax yellow to amber yellow, dry; gillssinuate adnate, white; stipe wax yellow, ~~xxxxx~~ 5 cm x 6 mm.

Puntarenas, Osa, R. Sándalo, 2 m., Dodge & Goerger 9-1, 8-25, 36

Hygrophorus

Pileus convex, slightly umbilicate, 1 cm, dry, disc ligher color than rest which varies from cadmium yellow to lemon chrome; gills white, subdistant, slightly decurrent, narrow (fully mature); stipe 2 cm x 3 mm. lemon chrome

Puntarenas, Osa, R. Sándalo, 2 m., Dodge & Goerger 8-27-36

Hygrophorus

Pileus hemispheric in smallest specimen to expanded in largest, very viscid, scarlet red to scarlet to orange chrome on largest, 5-19 mm; gills white at first, becoming Naples yellow, close, waxy, free or nearly so narrowly ventricose; stipe fragile, scarlet above to light cadmium below, becoming lemon yellow above to white below, moist, innate fibrillose ~~xxxx~~ silky, 1-3.5 cm x 1-3 mm.

Under Chusquea

San José, Guayabillos, 2300 m., Dodge & Goerger 7-7-36

Hygrophorus flammea
bella (cf. spores)

Pileus cadmium orange fading to Strontian yellow, 2-4.5 cm. deeply umbilicate, irregularly convex; gills subdistant, waxy, broad, concolor with stipe or paler, decurrent; stipe cadmium yellow to strontium yellow 5 cm x 8-5 mm tapering downward, waxy.

Under Chusquea

San José, Guayabillos, 2260 m Dodge & Goerger, July 11

Hygrophorus

Pileus flat, 5-6 mm., cracked, surface moist, not viscid, smooth, coarsely striate margin when old, hair brown to chaetura drab; gills thick, distant, slightly decurrent, white; stipe 2 mm wide, 5 mm tall concolor, smooth; whole very hygrophanous, no ring

San José, Guayabillos, 2300 m., Dodge & Goerger 7-6-36

Hygrophorus

Pileus 1.5 cm, expanded umbilicate, viscid, nopal red, margin striate sulcate, thin, gills peach red, waxy ~~xx~~ distant, adnate; stipe 1.7 cm x 3-4 mm, ventricose, mahogany red, viscid

Heredia, Santo Domingo de Sta. Barbara 1500 m., Dodge & Goerger 8-7-36

Laccaria

Pileus convex to hemispheric, disc slightly merulioid, margins long striate, dark livid brown; gills lavender, slightly decurrent, subdistant, broad; stipe concolor above, lighter below, cartilaginous hollow, 4 cm x 3 mm, pruinose above, fibrillose below.

Heredia, Chahuites, 1600 m., Goerger 9-11-36

Laccaria

Pileus campanulate, 1.5 cm x 1 cm. high, margin striate, avellaneous and vinaceous buff; gills adnate to slightly decurrent, subdistant, broad white or nearly so; stipe 4 cm x 3 mm, cartilaginous, hollow, concolor

Heredia, Chahuites, 1600 m., Goerger 9-11-36

Laccaria ?

Pileus 2.5 cm, convex, sulcate striate over gills; disc and striae Prussian red, rest ochre red; gills very slightly decurrent, subdistant broad, lavender; stipe 4 cm x 2-4 mm tapering upward, cartilaginous hollow, hygrophanous, innate fibrillose

Heredia, Chahuites, 1600 m., Goerger 9-11-36

Lepiota?

Pileus 1.5 cm, pyramidal scaly on mars brown disc, appressed scaly over rest, margin appendiculate; gills free, crowded white, ventricose stipe smooth above, cortinate tomentose below, Etruscan red, ligher above, darker below, 1.8 x 1.5-3 mm tapering downward.

San José, Santana, cañon of R. Uruca, Dodge & Goerger 9-8-36

Lepiota

Pileus flat, 2 cm., disc tawny, breaking up into very small, scatter ed scales on a white ground, margin appendiculate lacerate scaly; gills white, free, ventricose, close; stipe 3 cm, white or nearly so, silky above ring which is erect, fragile, white, slightly floccose tomentose below ring.

Under Chusquea

San José, Santana, cañon of R. Uruca, Dodge & Goerger 9-8-36

Lepiota

Pileus 1cm., more or less, velvety tomentose; margin fibrillose
gills free, ventricose, edges fimbriate white, rest buff pink
stipe 1.5cm x 1mm. or less, white, cartilaginous, tapering downward

Costa Rica, Limón prov., Castillo farm, 20m. 7-26-36
Lodge & Doerger

Leptonia

Pileus 1-2cm., convex, disc slightly scaly, ferrous brown, 5-6mm.; margin cod brown, strigose pulverate

Gills adnate, crowded, narrow, ferrous brown

Stipe cartilaginous, hollow, 4cm. x 1mm., white floc, fading to pale pinkish buff at base

Costa Rica, Limón prov., Cartilla farm, 30m, V-23-36

Lodge & Coorger

Tapinella

Pileus 6 [illegible]; [illegible]; [illegible], highly hygrophanous.

Gills crowded, narrow, [illegible], centrally [illegible], cartridge buff

Stipe 5cm. x 2.5-4mm., tapering upward, fibrillose

On soil?

On the Lice, Liberia [illegible], Castillo farm, 20m. 7-26,30

Dodge & Goerger

Lyptoni

Pileus hemispheric, 1.3cm; margin striate, pinkish buff shading to pale pinkish buff

Gills pale pinkish buff, broad, close, sinuate

Stipe 1.5cm. x 1mm., tapering downward, fragile, cartilaginous, concolorous, pruinose in line at apex

[illegible] Lion, Fruitcones near., [illegible], 1-[illegible], [illegible]-[illegible]-[illegible]
[illegible] w [illegible]

Leptonia

Pileus campanulate, 2cm. diameter x 1.5cm. tall, hygrophanous; pinkish buff ~~xxxx~~ and Saccardo's umber striate margin; black on disc only

Gills pink, adnate, narrow, close

Stipe 4cm. x4mm. diameter, cartilaginous, hollow, white

Costa Rica, Puntarenas prov., Osa, R. Sándalo, 1-5m. 8-22-36

Dodge & Goerger

Leptoni

Pileus 1.1cm., hygrophanous, striate to disc over gills; disc ayal brown, rest bister

Gills adnate, close, narro , avellaneou

Stipe silky white, 3cm. x 1mm., cartilaginous, fragile

On earth

Costa Rica, Puntarenas prov., Osa, R. Sándalo, 1-5 , 8-24-

Dodge & Goerger

Lentinus

Pileus broadly campanulate, surface smooth to slightly merulioid, becoming substriate at margin, coriaceous, up to 1cm. x 5mm, full
Gills adnate, pink spored, narrow, close
Stipe cartilaginous, fragile, white silky

On dead log in mud

Costa Rica, Puntarenas prov., R. Piquita 8-14-76
Dodge & Goerger

Leptonia

Pileus irregularly flat, 1.3cm., umbonate; margin striate, slightly rugose, hygrophanous, Mikado brown and light vinaceous cinnamon
Gills adnate, pink, broad lanceolate, medium
Stipe silky white, tapering upward, 1.7cm. x 2-3mm., cartilaginous, fragile

Costa Rica, Puntarenas prov., Osa, S. Sándalo, 1-5m. 8-24-56
Dodge & Goerrer

Leptonia

Pileus conic campanulate, vinaceous buff; disc merulioid, subradiate, slightly darker; rest smooth, margin slightly striate

Gills adnate, pink, very broad, crowded

Stipe fragile, white, 1.7cm. x 1mm.

In forest

Costa Rica, Heredia prov., Sto Domingo del Roble, 8-7-76

Dodge & Goerger

Leptonia

Pileus 3cm. with long umbo 2mm. x 1mm.; disc white; margin somewhat pink striate, lacerate

Gills pale pink, sinuate with decurrent tooth, subdistant, ventricose

Stipe 5cm. x 2-3mm., light lemon yellow, tapering towards center, cartilaginous, hollow, fragile ending in a flat bulb

Costa Rica, Puntarenas Prov., Osa, R. Sándalo, 1-5m. 8-25-36

Dodge & Goerger

Leptonia

Pileus expanded, 3cm., not or only very faintly striate, pinkish buff to pale pinkish buff

Gills pink, sinuate adnate, close, broad

Stipe cartilaginous, hollow, innate fibrillose, slightly lacerate, white, 7-8cm.x 2-3mm., tapering upward

Costa Rica, Puntarenas prov., Osa, R. Sándalo, 1-[illegible], 8-23-36

Dodge & Goerger

Leptonia n. sp.

Pileus up to 4 cm. diam, striate from incipient splitting over gills, translucent seeming somewhat transparent, disc clay color, margin pale pinkish buff to pinkish buff

Gills pale pinkish buff to pinkish buff, distant, broad with small anastomosing gills between, adnate

Stipe pinkish buff at top shading to tawny olive or Saccardo's umber at base, up to 4cm. x 3mm., cartilaginous, hollow, smooth, shining

Costa Rica, Limon prov., Siam Farm, 20m. 7-30-36

Microphiale

Pileus tilleul buff to [illegible], [illegible] fl[illegible]ellilo[illegible], [illegible], [illegible] lo[illegible],
Gills concolorous, broad, [illegible]ate or decurrent
Stipe 5mm. long, 1.5mm. diameter

Costa Rica, Limón Prov., C[illegible]tilla [illegible], 30m. 7-[illegible]-[illegible]
Dodge & Goerner

Micropsalio
Hygens?

Pileus 1cm., hygrophanous, convex, light buff to cottony yellow, smooth; ~~[illegible]~~ margin tending to curve inward

Gills yellow ochre, narrow, distant, adnate

Stipe 3mm. x 3mm., white, cottony, tomentose

On mossy log

Costa Rica, Limón prov., Castilla farm, 20m. 7-30-36

Lodge & Goerger

Microphiale

Pileus reniform, 1.8cm. x 0.[illegible]cm., lightly [illegible]rgin[illegible]te behind, p[illegible]le olive buff with li[illegible]t grayish olive striations

Gills white, not decurrent

Stipe 4mm. x 2,5mm. di[illegible]eter

Costa Rica, Limón prov., C[illegible]stilla Farm., 20m. 7-28-36

Dodge & Goerger

Microphiale (purple brown)

Pileus 1-1.7cm. diameter, [illegible], slightly tomentulose; disc vinaceous buff; margin Tilleul buff

Gills benzo brown, crowded, narrow, adnate

Stipe white, eccentric, short and small

Costa Rica, Limón prov., Sixaola farm, 7-30-36

Dodge & Goerger

Microphiale

Pileus 3mm., rarely 5mm. diameter, marginate behind; margin striate

Gills adnate, white, narrow, close

Stipe 4-5mm. x o.5mm., cartilaginous, white

Small fructification cream color, larger one Naples yellow

Costa Rica, Limón prov., Castilla farm, 80m. 7-25-[illegible]

Lodge & Goerger

Marasmius

Pileus convex, to flat, 2 cm., minutely velvety, burnt sienna.
gills adnate subdistant, narrow, pinkish
stipe cartilaginous tough 4 cm x 1.5 mm, marsbrown to russet and lighter, smooth

Decaying leaves

Puntarenas, Osa, R. Sándalo, 2 m. Dodge & Goerger 9-1-36

Marasmius

Pileus up to 2 cm, ochraceous buff to ochraceous tawny with small disc a shade darker than the margin; gills 6-10 in number, light buff to warm buff
stipe cinnamon brown 3 cm tall less than 1 mm in diameter

Palm forest

Limon, Siquirres, Castilla, Dodge & Goerger 7-28

Marasmius

Pileus burnt sienna, 5 cm, expanded central third deeply infundibuli form, velvety pile deeper pile over disc, deeply sulcate over gills gills very broad, wedge shape, ventricose, adnade distant white stipe tough compressed 5 cm x 4-1 mm tapering downward, white above, 5 mm shading burnt sienna smooth

Palm forest

Limon, Siquirres, Castilla Dodge & Goerger 7-28

Marasmius

Pileus hemispheric, deeply sulcate over gills, 1 cm, disc slightly depressed and darker, deep vinaceous; gills pale vinaceous, distant, adnate to collar, narrow; stipe tough, nearly black

Puntarenas, Osa. R. Sándalo, 2 m. Dodge & Goerger 8-23

Marasmius

Pileus convex, 6 mm, strigose fibrillose, not striate, slightly umbilicate, Saccardo's umber shading cinnamon buff; gills white, ventricose close, sinuate adnate

stipe concolor, minutely strigose, 4 cm long

R Sandalo

Puntarenas, Osa, 2 m., Dodge & Goerger 8-23

Marasmius

Pileus about 18 mm, stiate sulcate, disc yellow ochre, margin ~~xxxxx~~ antimony yellow; gills warm buff, distant, adnate to collar, broad; stipe warm buff above shading to ochraceous tawny and cinnamon brown, 4 cm x 0.5 mm, shining, base cottony

Limon, Siquirres, ~~xxx~~ Castilla Dodge & Goerger 7-23

Marasmius

Pileus 1.5-2 cm, convex, center depressed becoming broadly infundibuliform, hygrophanous, disc pale pinkish cinnamon, margin striate, cinnamon; gills distant, pale pinkish cinnamon thick
stipe 2.5 cm x 3-1 mm. tapering downward, somewhat compressed, pale pinkish cinnamon above, burnt umber below

Limon, Siquirres, Castilla, July 23, Dodge & Goerger

Marasmius

Pileus expanded, 2 cm in diameter, disc merulioid, clay color, rest originally velvety sepia soon splitting down backs of gills showing alternate triangles of pinkish buff; gills very distant, pinkish buff, adnate to collar; stipe 4 cm

Puntarenas, Osa, R. Sándalo, 2 m. Dodge & Goerger 8-24-36

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Marasmius

pileus convex to flat, disc depressed, small, white or nearly so, stri striate sulcate over gills, Verona brown, warm sepia over gills which are adnate to collar, subdistant, narrow, white; stipe cartilaginous tough, semipellucid, 4 cm x 2.5-1.5 mm tapering upward, light vinaceous cinnamon

Decaying leaves

Puntarenas, Osa, R. Sándalo, 2 m. Dodge & Goerger 9-1-36

Marasmius

Pileus 1.5 cm in diameter, hemispheric, disc flesh ochre shading to cartridge buff margins, substrigose, velvety, margin striate sulcate; gills white, close adnate broad; stipe 2.3 cm x 1 mm, white at apex shading to seal brown base, fibrillose at apex ending in small brown dots where pileus breaks away; pseudo ring at attachment of gills, rest velvety with scattered strigose white hairs

Heredia, Chahuites, 1600 m., Goerger Sept. 11

Marasmius

Pileus smoke gray, disc much darker, margins elevated and more or less infundibuliform, rugose sulcate over gills which are white, distant, broad, more or less anastomosing. stem black fuscous 2 cm x 1 mm

Limon, Siquirres, Castilla, m. Dodge & Goerger 7-28-36

Mycena

Pileus 1.2 cm, convex, center depressed with small sharp conic umbo, fibrillose tomentulose, margins striate pale windsor blue with nigrosin blue umbo; gills adnate, broad, subdistant, white; stipe 2.5 cm x 1 mm tapering slightly downward, cartilaginous tough, light Windsor blue above lower portion aniline yellow

Limon, Castilla, Dodge & Goerger 7-25

Mycena

Pileus 1 cm, hygrophanous, wholly striate over gills, disc pinkish cinnamon, striae snuff brown, pale pinkish cinnamon between; gills adnexed, broad, close, white; stipe white, fragile pruinose~~x~~ above, silky cartilaginous below, 1.5 cm x 1. mm.

On decaying polypore

Puntarenas, Osa, R. Sándalo, Dodge & Goerger 8-22-36

Mycena

Pileus hemispheric, 8 mm, very minutely velvety, bay; gills broad, white, adnate, distant; stipe 1.5 cm x 1.5 mm, cartilaginous, lighter above, bay below

Puntarenas, Osa, R. Sándalo, Dodge & Goerger

Mycena

`Pileus 1.2 cm in diameter, convex, striate, sulcate, magins disc flat mummy brown, rest buckthorn brown ; gills white, adnate, thick subdistant; stipe white above, 1 cm x 1 mm, mummy brown below, cartilaginous

Decaying leaf

Puntarenas, Osa, R. Sándalo, Dodge & Goerger 8-24-36

Mycena

Pileus up to 1.2 cm in diameter, expanded, hygrophanous, smooth, margin narrowly striate, buffy brown, margin clove brown; gills broad, adnate, semipellucid, close; stipe 1 cm x 1 mm, cartilaginous, fragile, silky white

Puntarenas, Osa, R. Sándalo, Dodge & Goerger 8-22-36

Mycena

Pileus 5 mm. hemispheric, subcampanulate, margin striate sulcate, Hays' russet; gills adnate to subdecurrent, close, white, marrow; stipe 1.3 cm x 0.5 mm, cartilaginous, flesh color

Puntarenas, Osa, R. Sandalo, Dodge & Goerger 8-21-36

Mycena

Pileus campanulate, striate, very thin, 1.2 cm diam, 7 mm tall, umbilicate deeply, light brownish olive; gills broad,white distant, adnate; stipe white, cartilaginous 3.5 cm x 1 mm. fragile

Puntarenas, Osa, R. Sándalo, Dodge & Goerger 8-21-36

Mycena

Pileus flat, margin striate sulcate, disc dark purple drab to light purple drab margins; gills broad, adnate, distant, pale pinkish drab stipe white cartilaginous tough, 1.5 cm x 1 mm taperingdownward

Puntarenas, Osa, R. Sándalo, Dodge & Goerger 8-22-36

Mycena

Pileus flat, 8-9 mm, striate, innate fibrillose, Saccardo's umber gills subdistant, white, broad, sinuate adnate, hygrophanous; stipe 1.5 cm x 0.5 mm, white cartilaginous

Puntarenas, Osa, R. Sándalo, Dodge & Goerger Aug 21

Mycena

Pileus convex to flat, margins upturned, striate to disc, mars brown to light ochraceous salmon, gills adnexed, broad, hygrophanous, subdi distant, ochraceous salmon, stipe cartilaginous 2 cm x 2mm, concolor above, mars brown or darker below

Puntarenas, Osa, R. Sandalo, Dodge & Goerger 8-25, 36

Mycena

Pileus 7 mm., hemispheric, deeply umbilicate, brownish olive or darker, silky fibrillose; gills subdistant, adnate, broad, white; stipe silky fibrillose, concolor, 4 cm x 1.5 mm.

Puntarenas, Osa, R. Sándalo, Dodge & Goerger 8-27-36

Mycena
Dictyolus

Pileus expanded, nearly flat, 7mm., spongy strigose; margin outrolled; between drab gray and smoke gray

Gills white, distant broad ridges only slightly elevated, adnate

Stipe cartilaginous, white, fragile, 7mm, tall x 1mm. in diameter

Costa Rica, Puntarenas prov., Osa, R. Sándalo, 1-5m. 8-22-36

Dodge & Goerger

Mycena

Pileus convex, 1.5 cm., minutely ~~xxxx~~innate sealy, buff pinkto Roods brown, margin striate and lacerate; gills ventricose, edges eroded white, close adnate; stipe buff pink or darker, 4 cm x 2 mm, cartilaginous, hollow

Heredia, Chahuites, 1600 m., Goerger 9-11-36

Mycena

Pileus expanded to nearly flat, deeply splitting along backs of gills, surface pruinose, drab gray, 3cm. in diameter

Gills subdistant, pale drab gray, broad, adnate

Stipe very slender and fragile, 5cm. or more in length, white

Among decaying trash on soil in bananal

Costa Rica, Puntarenas prov., R. Paquita 8-14-36

Dodge & Goerger

Mycena

Pileus hemispheric to convex, hygrophanous, up to 6mm. in diameter, pale pinkish buff

Gills adnate, narrow with still narrower cross gills, subdistant, white

Stipe 2cm. x 1mm., semipellucid, white, cartilaginous, fragile

Gregarious on decaying log

Costa Rica, Puntarenas prov., Osa, R. Sándalo, 1-5m. 9-1-36

Dodge & Goerger

Type

Pileus convex with small conic umbo, smooth tomentose, light cadmium, rest lemon yellow, hygrophanous, up to 1.2cm

Gills adnate, close, broad, light picric yellow

Stipe concolorous, cartilaginous, fragile, silky, 1.5cm, x 1mm.

Boat Pick, Butterworth Prov., Ogg, A. Sandalo, 1-5m. 6-25-70

Judge & Goerger

Mycena

Pileus up to 2cm., convex, white, striate over gills which are broad distant, white staining reddish when old

Stipe slender, 1cm. tall, morrocco red, tough

Costa Rica, Limon prov., Castilla farm, 20m. 7-25-36

Mycena n. sp near Trojanus

Pileus 1 cm., striate, rugose, innate fibrillose, clay color disc with cinnamon buff margin

Gills broad, subdistant, sinuate, adnate, white

Stipe fragile, cartilaginous, 2.5cm. x 1mm., white, shining, hygrophanous

In palm forest

Costa Rica, Limon prov, Castilla Farm, 20m. 7-28-36

Mycena

Pileus broad, campanulate, sharply umbonate, buckthorn brown, innate fibrillose, rugose, striate; margins sinuate, lacerate

Gills broad, subdistant, adnate, white

Stipe cartilaginous, white, 6cm. X 0.5mm., silky

Forest along tram line

Costa Rica, Limon prov., Siam Farm, 20 m. 7-30-36

Agaricales

Pileus convex to somewhat irregular, center slightly depressed, 3,5cm., striate from depressions over wedge-shaped gills which, with disc, are Raiser Brown, rest light ochraceous brown

Gills very distant, ventricose, adnate, light ochraceous buff

Stipe wood brown, compressed, 2cm. x 4-1mm., tapering downward

Costa Rica, Limón prov., Castilla farm, 20m. 7-25-36

Dodge & Nevermann

Mycena

Pileus depressed convex, 2cm. diameter, velvety strigose over gills; disc snuff brown; margin pinkish buff

Gills adnate, broad, pinkish buff

Stipe 1cm. x 2-1mm., tapering downward, pinkish buff at top fading to warm sepia

Costa Rica, Limón Prov., Castilla farm, 20m. 7-XI-36

Dodge & Goerger

Mycena

Pileus clay color, campanulate, up to 2.5cm. diameter, up to 3cm. high, hygrophanous, smooth with some cottony rhizoids probably from place of growth; flesh thin, cartilaginous, thin on disc

Gills, close, adnate, pinkish buff

Stipe hollow, white, fleshy, 2.3cm. high x 3mm., white, innate fibrillose.

Costa Rica, Limón prov., Guatillo farm, 20m. 7-16-36

Judge A. Goerger

Mycena
Collybia

Pileus 1.5cm., convex, [illegible] brown, margins inrolled, fibrous, tomentose

Gills white, adnate, broad, subdistant

Stipe cartilaginous, white, staining black where handled, 2cm. x [illegible]., fibrous

Costa Rica, San José prov., [illegible]gabillos, 7-10-36

Dodge & Goerger

Mycena
Microphylle

Pileus convex, often reniform (from position on side of log) 1.4cm.,
white slightly striate with light buff, somewhat depressed over stipe;
margin even

Gills distant, broad, adnate to collar about stipe

Stipe 1cm. 1mm. above ,pruinose, cartilaginous, tapering downward , brick red,
Russian brown where handled

Costa Rica, Limón prov., Castilla farm, 20m. 7-25-26

Lodge & Goerger

Lycena

Pileus up to 6cm., expanded to nearly flat; disc strigose, bay, breaking up into ± concentric strigose bay scales to strigose lacerate margin

Gills free, ventricose, narrow, close, pale yellow

Stipe 3-4cm. long, less than 1mm. diameter, cartilaginous, tough, strigose except at apex but no trace of ring; hairs maroon, short, dense below, more scattered above

On Cedrela mexicana

Costa Rica, Limón prov., Castillo farm, 30m. 7-29-36

Neuermann

Coprinus comatus

Pileus 6 cm. diam. 20 cm. tall, white, lacerate, squamose, lower 4 cm. striate; stipe white, smooth, silky, 37cm. # 2cm diameter.

Roadside between

Specimens examined:

Costa Rica, San Jose, between San Miguel & San Isidro de Coronado, Alt. 1800 m. Dodge 4953

Coprinus

Pileus campanulate, striate, fibrillose, white when young becoming isabelline on disc, margin white, darkening as autolysis begins 3 cm diam, 2 cm tall; gills adnexed/ broad, crowded black, stipe fragile up to 11 cm x 4 mm, shite shining

Costa Rica: Puntarenas, Osa, near Rio Terrones 2-5 m ~~Apx~~ Dodge 7725

Coprinus

Pileus campanulate, 4 cm high, 5 cm diam, striate, hygrophanous isabelline; gills crowded, broad, free, black; stipe white 15 cm x 5 mm

Costa Rica: Puntarenas:Osa near Rio Terrones 20-30 m, Dodge 7661

Coprinus

Pileus ovoid to campanulate; universal veil not seen; 1 cm. either diameter, chamois or lighter; gills crowded, white, becoming black; stipe fragile, slender white, shining 3 cm. # 2.5 mm.

Mossy log in potrero.

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 2160-2180 m.

Dodge & Thomas 5059

Coprinus

Pileus campanulate to expanded, covered with floccose, furfuraceous universal veil, which quickly rubs off, leaving smooth, striate pileus with Dresden brwon disc, shading to avellaneous; gills nearly free, crowded, white, becoming black; stipe fragile, white, variable in length with agee of plant.

Logs in potrero S. of house.

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 2160-2180m.

Dodge & Thomas 5060

CoprinuGoprinus

Pileus campanulate with heavy brwon tomentum,often arranged in pyramidal warts,rubbing off, leaving smooth or pruinose, shading from buckthorn-brown to warm -buff on the striate, thin margin; 1.5 cm. diameter 1.8 cm. tall; flesh very thin; gills crowded, nearly free; wide;margin of pileus breaking away from margin of bulb by elongation of stipe, which is fragile, 2 cm. long, 4 mm. diameter, white, silky.

On log in potrero S. of house.

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 2160-2180m. Dodge & Thomas 5109

Coprinus

Pileus campanulate, 3.5 x 3 cm thin, striate, pruinose except on disc which is cinnamon brown shading to ochraceous tawny with still lighter margin, very fragile; gills free broad, crowded edges pruinose, stipe white 6 cm hollow, very fragile, silky fibrous

dead stumps, quite common at Rancho Redondo

Specimen examined:

Costa Rica: San Jose, Rancho Redondo 2300 m Dodge& Thomas 5388

Cortinarius

Pileus convex, viscid, tawny to russet, darker when moist, margin appendiculate with fragments of cortina especially when young; flesh white, thin except on disc; gills broad, close, white becoming brownish, adnexed; stipe cartilaginous hollow, white stained red brown by remains of cortina 1.5 cm x 5 mm above tapering to 3 mm

cf Naucoria 5164

San Jose, Costa Ric

Apartado 362,

Cortinarius

Pileus hemispheric, conic expanded, convex, with broad umbo, innate fibrillose scaly, moist but not viscid, 2.5 cm diam, amber brown shading to raw sienna, flesh thick on disc, watersoaked; gills adnate very narrow, close, raw sienna; stipe fleshy with cartilaginous rind; cortina present when young, evanescent leaving a few fibrils at point of attachment of gills, surface fibrous, slightly darkerwhere handled, raw sienna.

Mossy log.

Specimens examined

Costa Rica: San Jose, Rancho Redondo, 2400 m, Dodge & Thomas 5022

Cortinarius

cf. Flavoul[illegible] f. [illegible]

Pileus unpolished brown, [illegible] 3cm. in diam. 1.[illegible] cm, thin disc [illegible] fibrillose [illegible], slightly hygrophanous, [illegible] margin [illegible] gills brown adnate close narrow stipe [illegible] cm. by [illegible], ending in a flat bulb 1.7 cm. diam. hollow flesh, fibrillos from remains of cortina which is largely appendiculate to margin

Costa Rica San José Prov. Rancho Redondo 2200 m. 7-15-36
Dodge and Goerger

Cortinarius
cf Collybia tenuipes group if spores white

Pileus hemispheric (not fully expanded?) about 1 cm diam xanthine orange, slightly ~~xxx~~ lighter toward the margin with 5-6 sided truncated pyramidal warts (E. variegatus like); flesh thick, watery, gills apricot yellow, broad, close, adnexed edges lighter, pruinose, crenate, serrate, cortina present, about the color of the gills; stipe antique brown on handling, fibrillose scaly squamose, apricot yellow, cartilaginous hollow, 17 x 2.5 mm

bank by roadside

Specimens examined:

Costa Rica: San Jose, Rancho Redondo, 2300 m, Dodge &Thomas 5114

Apartado 362,
San Jose, Costa

Scientific Name. Scientific Name indent 1 sp.

the carriage seems to be

retarded

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6

Specimens examined:

alt.

Costa Rica: San Jose, Rancho Redondo, Dodge & Thomas 5262

Crepidotus cf cacophyllus

Pileus tawny, scaly above.

Rotten log.

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt.2250 m. Dodge and Thomas 5124

Crepidotus

Pileus applanate to depressed, flabelliform to dimidiate by coalescence, blackening above, buckthorn- brown, hygrophanous; gills thick, crisped interveined cinnamon buff, decurrent along point of attachment.

Dead log.

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt.23-2400m. Dodge and Thomas 5049

Crepidotus

Pileus up to 6 cm. partly resupinate to point of attachment above and near center but pileus split up the underside as inverted Otidea, viscid, buff near point of attachment, otherwise white, reticulate with water-soaked veins; gills close to crowded, wide, edges floccose with remain s of partial veil.

Dead stump in potrero.

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 2600m. Dodge & Thomas 5122

Crepido Crepidotus near C. fumosifolius?
~~Cp. C. calolepidoides~~.

Pileus subdimidiate up to 2 cm. diam., white above, brown below, surface smooth with very small pyramidal brown groups of fibres; lamellae adnate to point of attachment.

Dead stub on living tree in forest.

Specimens examined:

Costa Rica, Cartago, La Carpintera, Alt. 1500m. Dodge & Thomas 4812

? Simon: Waldeck 40m ~~Dodge~~ 7318

Crepidotus calolepidoides group

Dead wood in potrero south of house

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 2160~~6~~ 2180, Dodge&
Thomas 5123

Crepidotus calolepidoides group

Pileus dimidiate, 6 X 4 cm. expanded, surface, fibrillose, scaly, subhygrophanus, margin watery, disc snuff-brown, shading to cream-buff, dotted with snuff-brown scales, gills decurrent along point of attachment, crowded, subventricose, snuff-brown to bister.

On bark of living Eucalyptus sp. Garden

Specimens examined.:

Costa Rica, San Jose, Rancho Redondo, Alt. 2150 m. Dodge 5129

Crepidotus

Pileus flabelliform, 2.5x 2 cm, flat, clove brown, dull, margin faintly striate; gills close, medium width, decurrent along point of attachment, olive brown; flesh very thin.

Mossy long in potrero south of house

Specimens examined

Costa Rica: SanJose, Rancho Redondo, 2160-2180 m Dodge & Thomas 5064

Crepidotus

Pileus 2.5 cm. diameter, flabelliform to subdimidiate, flat to slightly convex, clay color; gills decurrent along point of attachment, cream-buff or darker, close, ventricose, attachment lateral with no trace of atipe.

On stump by roadside.

Specimens examined.

Costa Rica, San Jose, Rancho Redondo, Alt. 2270 m. , Dodge & Thomas 4981

Crepidotus

Pileus flabelliform to somewhat dimidiate, expanded surface, smooth, hygrophanous, light-pinkish-cinnamon, substriate; gills concolor, adnate to olive buff stipe which appears flabelliform below up to 5 mm. long, diameter wholly lateral.

Mossy bank by roadside.

Specimens examined;

Costa Rica, San Jose, Rancho Redondo, Alt.2500m. Dodge & Thomas 4982

Crepidotus

Pileus flabelliform, slightly convex, tomentose with fascicles of auburn fibres on moist light ochraceous salmon surface; gills adnate to point of attachment, tilleul buff, ventricose, edges slightly wavy; attachment concolor, 5 mm long 3mm diameter

Specimens examined

Costa Rica: San Jose, Rancho Redondo 2180-2350 m Dodge & Thomas 5002

Crepidotus

Pileus minutely tomentose,ochraceous-buff, 5 # 3.5 cm.,margin crisped, striate; gills amber-brown, adnate, closem,narrow; stipe ver very short.

Decaying log in cassava patch.

Specimens examined:

Costa Rica, Limon,Livingston Farm, Alt.70-80 m.,Catt, Dodge & Thomas 5547

Crepidotus n sp.

Pilei close, 5-10 mm. glabrous, avellaneous or lighter; very thin;context; gills broad, distant, becoming cinnamon, adnate to slender; short lateral stipe.

Bark of stump.

Specimens examined:

Specimens examined:

Costa Rica, Limon, above Rio Siquirres, Alt.200-300m., Dodge & Catt, & Thomas 5554

Crepidotus near cinchonensis

Pilei crowded imbricate, sub conic, hygrophanous, white above, margin faintly striate; gills ventricose, pinkish not decurrent along tiny stipe which is lateral and 6 mm long

On dead wood

Specimens examined

Costa Rica: San Jose? Santa Rosa, 2580 m, Dodge& Thomas 5347

Deconica

Pileus deeply infundibuliform, argus brown, striate, gills broad, decurrent, distant, concolorous

Stipe 1.5cm. x 1mm., fibrillose, concolorous

On fern roots

Costa Rica, San José prov., S. Pedro de Montes de Oca 8-2-36

Nevermann & Goerger

Eccilia

Pileus very fragile with 3 splits to stipe, when collected, infundibuliform, 3 cm., white,disc, margin striate, pale ochraceous- salmon ; gills broad, decurrent, subdistant, pink; stipe very fragile, white, cartilaginous, hollow, 2.5 cm. # 2.5 mm.

Specimens examined:

Costa Rica, Limon, Rose Hill above Rio Pacuare, Alt. 70-120 m.,

Catt, Dodge & Thomas 5592

Eccilia near Earlei

Pileus umbonate, up to 3 cm, margin inrolled, notstriate, disc ochraceous buff; gills decurrent, subdistant, broad, pinkish cinnamon stipe 3.5 x 3 mm, smooth, light ochraceous buff.

Costa Rica: Puntarenas, Osa, Cerro Guaca Dodge 7641

Favolus

Pileus dimidiate up to 3 cm, not tessellate; stipe almost lacking.

Specimens examined:

Costa Rica, Limon, Siquirres South Farm, above Rio Siquirres, Alt. 70- 200m, Catt, Dodge & Thomas 5562

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b

b

C

Favolus n sp.

Pileus tomentose, 6 # 8, wholly tesselate, margin thin, dentate or sublacerate, context membranous, except on disc, pinkish-buff to cinnamon-buff; tubes slightly decurrent, white edges, fimbriate, eroded; stipe short 7 # 6 mm., lateral, concolorous.

Specimens examined:

Costa Rica, Limon, Barnstorf Farm, Catt, Dodge, & Thomas 5541

Favolus near reniformis.

Pileus 5 cm.,minutely tomentose, tesselate with tendency to split down; tubes as in Hiatula, context almost membranous;tubes decurrent on stipe, edges fimbriate;stipe 1.5 # 4 mm.,white,tomentose below tubes.

Specimens examined:

Costa Rica, Limon, Barnstorf Farm, Gatt, Dodge, &Thomas 5536

Favolus near subcaperata in key.

Pileus 8 cm.,surface, tomentose,tessellate on margin ,smooth on disc; stipe lateral; tubes some what decurrent, 2.5 cm # 8 mm., spongy, tomentose, below tubes.

Dead log.

Specimens examined:

Costa Rica, Limon, Barnstorf Farm, Catt, Dodge & Thomas 5530

Favolus near reniformis.

Pileus gray, reticulate with darker lines;context thin.

Dead log.

Specimens examined:

Costa Rica, Limon,tributary south, Rio Siquirres, Alt.160-180m.,

Catt, Dodge & Thomas 5526

Favolus caperata group

Pileus 8 cm.,cream-color,irregular,caespitose,margin slightly tesselate, rest opaque, smooth surface;tomentose tubes decurrent on stipe, edges smooth; stipe short,white tomentose,below tubes, 2 cm. # 8 mm.

Specimens examined:

Costa Rica, Limon, Barnstorf Farm, Gatt, Dodge & Thomas, 5524

~~Favolus~~ try Marasmius polyporoides.

Collybletinus

New genus.

Pileus membranous,2 cm.,centrally stipitate,surface smooth, reticulate along lines of gills or pores,light-pinkish-cinnamon;hymen hymenium of interveined gills? concolor stipe,slender, tough,2 cm. # .7-1 mm. cinnamon or darker.

Dead leaf mould above R.Siquirres.

Specimens examined:

Costa Rica, Limon,above Rio Siquirres, Alt.200-240 m.,Catt, Dodge & Thomas 5522

Flammula

Pileus 2.2 cm.,ochraceous-buff to antimony-yellow,expanded,fibrillose,scaly; gills close,broad,zinc-orange, adnexed; stipe slender,tapering downward, 15 # 3-1.5 mm,fibrillose,scaly.

Close to F.4642 from Coliblanco.

Cespitose on decaying log.

Specimens examined:

Costa Rica, Limon, Livingston Farm,Alt.70-80m.,Catt, Dodge & Thomas 5521

[illegible]

[illegible] 1.7 oz, [illegible] with small [illegible] [illegible] [illegible] ground, [illegible] [illegible] [illegible] [illegible], clear [illegible]; slightly tough, 2 [illegible] 3 [illegible], cotton [illegible]

[illegible] 1.2

[illegible], Ga., [illegible], [illegible] [illegible] [illegible], DC

Flammula

Pileus about 1 cm. diam;,xanthine-ornage to zinc-orange with darker, pyramidal,fibrillose spines, depressed with broad umbo; gills broad, adnexed, close,xanthine-orange; stipe fleshy,broadening aboveffor context, slightly hollow below,fibrillose with faint remains of cortina, zinc-orange, lighter above, 1 cm # 1 mm.

Specimens examined:

Costa RIca, Limon, Livingston Farm, Alt.70-90 m., Catt, Dodge & Thomas 5520

Flammula subpenetrans in Key.

On dead logs.

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, ALt.2150,Dodge & Thomas 5171

?Flammula

Pileus convex, margin scolloped, fibrillose, scaly, Mars yellow to Sudan brown; flesh thin; gills narrow, crowded, adnate, cadmium-yellow, spotted with chestnut where bruised; stipe concolor with gills cart., hollow, surface fibrous, tomentose.

Mossy log in potrero.

Specimens examined:

Costa Rica, San Jōse, Rancho Redondo, lt.2500m., Dodge & Thomas 5170

Flammula

Additional material; pileus surface verrucose,punctate, scaly.

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt.2400m.,Dodge & Thomas 5175

? Flammula

Pileus convex to expanded,up to 5 cm.,innate,fibrillose, chestnut or somewhat lighter on margin, which is slightly appendiculate,not inrolled;gills adnate,broad,close,wax-yellow;flesh thin,except on disc,watery(cart?) of same texture & continuous with stem;stipe fleshy,cartilaginous,watersoaked,smooth,silky, concolor with gills above shading to color of pileus or darker below, 4 cm # 4 mm.

Mossy logs in potrero southe of house.

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 2160-2180, Dodge & Thomas 5176

Flammula near chrysotrichus B & C.

Pileus expanded, margin inrolled, fibrillose, maculate, mustard-yellow with ochraceous-tawny spots, up to 2 cm. diamter; flesh medium mustard-yellow; gills close, crowded, olive-brown, adnate; stipe, slender, equal 3 cm., mustard -yellow, somewhat darker in spots, very fibrillose.

On mossy trunk.

Specimens examined:

Costa Rica, Cartago, Finca Coliblanco above Capelladas, Alt. 1980m.

Dodge & Thomas 4642

Simon: Marta, Dodge 7233

?Flammula

Pileus flat or expanded, fibrillose, scaly, amber-brown or lighter, 4 cm.; flesh, fleshy, spongy, light-yellow when first cut, darkening on exposure, membranous on margin, gradually thicker to disc continuous with stipe, which may be hollow, stuffed; gills antimony-yellow, zinc-orange, adnate, margin og pileus not appendiculate; stipe more fibrous fleshy 3.5 cm# 3 mm. coarsely fibrillose, striate, darkening on handling, conc. with gills above 5 mm. rest conc. pileus

Mossy logs in potrero south of house.

Specimens examined:

Costa Rica, Rancho Redondo, Alt. 2160-2180m., Dodge & Thomas 5169

? FLammula

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 2150-2350m., Dodge & Thomas 5178

Flammula chysotrichoides in Key

Dead wood in potrero south of house

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt.2160-2180, Dodge & Thomas 5175

Flammula

Similar to specimens of Nov.6

Dead logs.

Specimens examined:

Costa Rica, San JOse, Rancho Redondo, Alt.2400m., Dodge & Thomas 5180

? Flammula

Pileus convex, margins inrolled, habit of Lactarius, surface innate, fibrillose, scaly, up to 8 cm. diameter, variegated cinnamon-brown & ochraceous-tawny, darker where bruised; flesh thick; gills close, adnate, decurrent by line, yellow, Sanford's brown when bruised; gills narrow, primuline yellow; stipe 25 cm. # 5 mm. diamter, fibrous, fleshy but slightly hollow, fibrillose without Sandford brown on a primuline yellow, smooth ground: flesh darkening to ochraceous-tawny on exposure to air.

Mossy logs in potrero south of house.

Rancho Redondo

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 2160-2180m., Dodge & Thomas 5177

? Flammula

Pileus irregularly expanded up to 5 cm., surface hygrophanous, scaly, auburn; gills close, subdistant, wide, sinuate, adnate, Mars yellow; stipe 2 cm. # 7 mm. above, 5 mm. below, concolor with gills darker where handled.

Mossy logs in potrero.

Specimens examined:

Costa Rica, San José, Rancho Redondo, Alt. 2250m., Dodge & Thomas 5179

Flammula C

(See painting Ø

Color lighter;flesh only on disc;stipe long,slender; pileus convex,pyramidal tufts of hairs.

South Potrero.

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 2150m., Dodge 5015

Flammula B

(Seepainting)

Pileus flat, subtomentose, fibrillose; flesh all the way to margin; stipe silky, fibrillose.

Potrero south of house.

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 2150 m, Dodge 5225

Flammula ?

(See painting)

Pileus up to 4 cm. diam.,convex,raw sienna,velvety, minute warts like Elaph. variegat. with shining dark apex; stipe cartilaginous not continuous with flesh,slender,surface tomentose,fibrillose darker than pileus , 4 cm.# 3 mm.; flesh very thin; gills free, close, broad.

Logs in potrero south of house.

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt.2160-2180, Dodge & Thomas 5181

Flammula

Pileus conical to applanate, broadly umbonate, innate fibrillos scaly up to 5.5 cm diam, russet disc shading to antimony yellow bay maculate; flesh antimony yellow thick on disc, otherwise thin gills adnate, broad close antimony yellow; stipe fleshy 3 cm x 7 mm taperingslightly downward, pruinose spotted with traces of evanescent annulus about 3 mm below gills, silky fibrillose white darkening to tough; gills ferruginous where wounded

Mossy long in potrero 2400 m

Specimens examined

Costa Rica: San Jose, Rancho Redondo, 2400 m Dodge & Thomas 5021

Flammula A

(See painting)

Pileus color darker,flesh only on disc;stipe slender & short, hemispheric to convex,tomentose,fibrillose.

South potrero.

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 2150 m., Dodge 5012

Flammula

Pileus scaly (See previous collection)

General locality

Rotten log

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 2400m, Dodge & Dode

Thomas 5226

Flammula

(See painting)

Specimens examined:

Costa Rica, Alajuela, San Isidro, Alt. 1500m., Dodge & Valerio

4756

?Flammula

Pileus expanded, slightly umbonate, up to 4.5 cm., surface glabrous, innate, fibrillose, amber-brown to antique-brown, becoming Mars yellow to raw sienna toward margins; flesh antimony-yellow, fleshy, subcartilaginous next gills, continuous with stipe; gills sinuate, adnexed to almost free, broad, close, tawny; stipe short & stout, 18 mm. & 6mm. tomentose, antimony-yellow, becoming tawny where bruised, fleshy subcartilaginous, hollow, stuffed.

Mossy logs in potrero south of house.

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 2160-2180m. Dodge & Thomas 5172.

?Flammula penetrans in key

Pileus expanded, convex 3.3cm., surface wrinkled, scaly, fibrillose, tawny to Mars brown; gills sinuate, ventricose, close, yellow-ochre to ochraceous-tawny; stipe 3 cm. # 5 mm. not tapering surface, fleshy striate, fibrous, concolor above, darker below.

Mossy logs.

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 2250m., Dodge & Thomas 5174

Flammula

Pilei cespitose conic to nearly plane, 1.6 cm diam, flesh thin except on disc, innately fibrillose, disc yellow ochre shading to mustard yellow margin inrolled; gills broad, close, adnate to slightly decurrent, brown; stipe smooth concolorous, slightly sulcate in young specimens, 2 cm x 2 mm

Decaying wood

Costa Rica:Limon, Marta 20 m, Dodge 7233

Flammula

Pileus up to 4 cm, sparsely aculeate scaley, antimony yellow, margin thin, smooth; gills sinuate adnate, close, ventricose, zinc orange; stipe striate fibrillose, equal or tapering slightly downward 4.5 x 4-3 mm, zinc orange or lighter

Decaying g frond of swamp palm(7308) charred decaying log in banana No 7667 slightly umbonate in younger specimens color often more ochraceous from spores carried up by convection currents.

Costa Rica: Limon, Castilla 20 m, Dodge 7308.
Puntarenas, Puerto Jimenez 10 m Dodge 7667

Galera

Pileus campanulate, hygrophanous, Brussels brown, with antimony yellow disc 6 mm; gills adnate; stipe cartilaginous slender 2 cm x 1 mm, brussels brown or darker.

SPecimens examined:

Costa Rica: San Jose, Rancho Redondo 2200 m, Dodge & Thomas 5107

Galera

Pileus campanulate, margin striate, surface minutely tomentose, 7 mm. diameter, antimony-yellow, margin russet; gills broad, distant, adnate, consolorous; stipe slender, 20 # 1 mm. concolor cartilaginous.

Mossy bank.

Specimens examined:

Costa Ruca, San Jose, Rancho Redondo, Alt. 2100 m., Dodge & Thomas 5350

Galera

Pileus expanded, 7 mm margin shortly dentate lacerate, velvety tomentose, cinnamon buff on disc, margin lighter; gills close, ventricose, sinuate adnate, concolor, stipe silky concolor 20 x 0.7 mm

Mossy bank on roadside

Specimens examined:

Costa Rica: San Jose, Rancho Redondo 2100m Dodge & Thomas 5377
Quayabillos, 2300m Dodge + Goerger July 9.

Galera near Hypni

Pileus campanulate to convex when expanded 2.2 cm diam, velvety, deeply striate to disc, cracking radially over gills as in Hiatula, cinnamon disc shading to ochraceous orange, margins flesh, lighter along cracks, margin thin as in Coprinus but not inrolled; gills brown, medium distance and width, adnate; stipe slender, silky, nearly white above to ochraceous orange below and subavellaneous in old specimens, cartilaginous 3 cm X 3 mm

Decaying log in jungle

Costa Rica:Limon, hills opposite Hamburg 40 m, Dodge 7314

Galera

Psathyra

Pileus conic, campanulate,not umbonate,12 mm.diameter,9 mm. high, substriate, mummy-brown with long slnder,pyramidal spines over whole surface, margin appendiculate; gills crowded, quite thick, edges adnexed; stipe slender cartilaginous, white with dark-brown fibrils, 2 cm # 1 mm.,often stellately arranged (universal veil) above, white, pruinose where gills join stipe.

Decaying wood.

Specimens examined:

Costa Rica, Limon, Rose Hill above Rio Pacuare, Alt. 100m.,Catt,

Dodge & Thomas 5516

Galera ?

Pileus convex,hygrophanous, 7 mm.,pruinose, margin very faintly striate, clay color, disc cinnamon-buff; gills broad, adnexed, cinnamon-buff, close; stipe cinnamon-buff,silky, cartilaginous, 15 # 1 mm.

Mossy bank.

Specimenseexamined:

Costa Rica, San Jose, Rancho Redondo, Alt.2140 m., Dodge & Thomas 5349

Galera

Pileus expanded 7 mm, margin shortly dentate lacerate, velvety tomentose, cinnamon buff on disc margin lighter; gills close, ventricose, sinuate adnate concolorous; stipe silky concolor 20 x 0. 7 mm

Mossy bank

Specimens examined:

Costa Rica: San Jose, Rancho Redondo, 2100 m, Dodge & Thomas 5377

Hebe
~~Xxxxxx~~loma

Pileus expanded, subumbonate, 8-10 cm diameter, viscid, minutely fibrillose undergel, mummy brown disc to Dresden brown whith white shining margins; gills broad very close, sinuate adnate, chamois to isabella color; stipe fleshy fibrous 6-8 cm x 12-10 mm, fibrillose silky, brown reticulate with remains of viscid gel, subbulbous below

In earth bank

Specimens examined

Costa Rica: SanJose, Rancho Redondo, 2450 m, Dodge, Dodge & Thomas, 5405

Hebeloma near subincarnatum

Pilei cespitose, 3 cm. expanded, slightly umbonate, moist with occasional citrine yellow remains of universal veil, disc isabella shading to colonial buff, margin slightly appendiculate, smooth; gills sinuate, with slight decurrent tooth appearing nearly free, broad, close, isabella color, thin; stipe colonial buff with isabelline fibrils, slender, swollen below, 3.5 cm x 3-4 mm

In mould on very rottenlog in deep jungle

Specimens examined:

Costa Rica: Heredia, Cerro Central de Zurqui 1620 m, Dodge, Valerio & Thomas 6128

Hiatula or n.g.

Pileus large, membranous lamellae splitting down back ochraceous along lines betweengills and on disc where lines meet; gills transparent; stem citrine, fragile very long, slender; ring broad, pendent veryfragile

Decaying leaves in Jungle

CostaRica: Limon, Los Negritos 20 m, Dodge & Nevermann 7241

Hiatula

Benzonii group

Pileus conic, 2.5cm. × 1.5mm. high, disc cerulicia, buckthorn brown, rest pellucid white, splitting down backs of gills completely and spreading
Gills white, subdistant, free from stipe, broad
Stipe fragile, hollow, cartilaginous, white, 10cm × 2,5mm.

Costa Rica, Puntarenas prov., Osa, R. Sándalo, 1-5m. 8-22-56

Dodge & Goerger

Hygrophorus near aurantia

Pileus conical,umbonate,faded;gills free,ventricose, distant,apricot-yellow; stipe fragile,silky, apricot-yellow

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt.2200-2600m. Dodge & Thomas 5237

Hygrophorus

Pileus campanulate, 8 mm.,Brazil red,becoming orange-chrome on disc, viscid; flesh apricot-yellow; gills adnexed, apricot-orange, distant, thick;stipe fragile,hollow,inflated, belwo cartilaginous, pale lemon-yellow below,to orange above, 1.5 cm. # 4 mm.

Mossy log in potrero south of house.

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt.2180-2220m. Dodge 5139

Hygrophorus near subminiata

Pileus bright red, convex to plane or slightly depressed; gills distant, deep red with white edges;stipe red above, bright yellow below, colors, fading on drying.

Among mosses.

Specimens examined:

Costa Rica, Cartago, Finca Coliblanco above Santa Theresa de Capelladas,Alt.1980

Dodge 4460

Hygrophorus conicus group

(See painting)

Pileus campanulate with sharp, pointed umbo, blackening on drying, not viscid, moist, innate, fibrillose, margins inrolled; flesh very thin; gills free, narrow, orange-buff, blackening; stipe fibrous, cartilaginous, hollow, silky, fibrous without. Pileus attached to <u>underside</u> of huge, moss-covered log!

Specimens examined:

Costa Rica, Cartago, Finca Coliblanco above Sta. Theresa de Capelladas, Alt. about 1800 m., Dodge & Thomas 4651

Hygrophorus near Earlei

Pileus convex, deeply umbilicate, 3.5 cm, Mars orange over gills, Mars yellow between, margin thin, somewhat lacerate; gills adnate with decurrent tooth, broad, distant, cadmium yellow; stipe tapering downward 5.5 cm x 4-3 mm lemon chrome

Costa Rica: Puntarenas, Osa, between R. Nuevo and Pto. Jimenez 10 m
Dodge 7651

Hygrophorus

Pileus much depressed, attacked by myxomycetes, which may account for lack of top of pileus, now deeply infundibuliform , cartilaginous between strontian yellow & yellowish-citrine, 6 cm. diamter,slightlydecurrent, thick,waxy, concolorous;stipe hollow 4 cm. # 8 mm. diameter,cartilaginous,concolor.

Under Bambusoid grasses in soil.

Specimens examined:
Costa Rica, San Jose, Rancho Redondo, Alt. 2550m.,Dodge & Thomas 5024

Hygrophorus

Pileus 3.5 cm, flat, umbilicate, greenish black, hygrophanous; gills subdistant, ventricose orange yellow, adnate;stipe chestnut hollow, cartilaginous, 25 x 4 mm, end proken off

Specimens examined

Costa Rica: San Jose, Rancho Redondo 2100 m, Dodge, Dodge, &Thomas 5366

Hygrophorus (Hygrocybe)

Pileus 3.5 cm, Begonia rose, minutely fibrillose, margin irregularly lacerate, flesh thin;gills broad, subdistant, hermosa pink, free or nearly so; stipe fragile, subcartilaginous, white above, coral pink shading to flesh ochre below, 5 cm x 5 mm with fusiform base 7 mm in diam.

Leaf mould at foot of tree inthe edge of the jungle

Specimens examined:

CostaRica: Heredia, Cerro Central de Zurqui, 1620 m, Dodge, Valerio & Thomas 6022

Hygrophorus bella?
subcaespitosa?
flammea?

Pileus Brazil red fading; stipe light cadmium. (5564)

Pileus expanded, scarlet to scarlet red, margin slightly more yellowish 11 mm in diameter margin slightly striate; gills distant medium adnate to subdecurrent pale orange yellow to white stipe scarlet to orange 2 cm X 2 mm fragile (7713, 7714)

Pileus conic expanded very moist (probably viscid) disc rufous margin between light cadmium and lemon chrome; gills thick white nearly free stipe 3 cm X 5 mm white flesh surface fibrillose (7679)

Specimens examined:

Costa Rica, Limon, above Rio Siquirres, Alt. 220m., Catt, Dodge & Thomas 5564

Puntarenas Osa near Estero Sandalo 5-20m Dodge 7713, 7714. ? 7679

?Hygrophorus variolosus Fr. ?
(See also painting)

Specimens examined:

Costa Rica, San Jose, San Jose, Parque Bolivar, Alt.1179 m. Dodge 4318

Hygrophorus (camarophyllus)

Pileus very much distorted from position of growth, surface fibrillose, watery almost tomentose, sepia, shading to cinnamon-buff on margin; gills subdistant rather thick, white, becoming warm-buff, somewhat; interveined; stipe thick, much distorted, but gills decurrent, apparently collected along with Hygrophorus of same date (Nov. LL) cf. 5137 q.v., probably large, distorted specimen.

Specimens examined:

CostaRica, San Jose, Rancho Redondo, Alt. 2250 m., Dodge & Thomas 5348

Hygrophorus

Pileus gregarious to cespitose, 7 cm. diam.,dry verrucose-tomentose, cinnamon-brown, shading lighter toward margin;flesh thin, cartilaginous, continous with stipe; gills thick, waxy, distant, narrow to medium, slightly decurrent, maize-yellow; stipe hollow, fragile, cartilaginous, 7 cm. # 9 mm.,white, fibrous, sulcate.

Grassy potrero under Quercus.

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt.2250m., Dodge & Thomas 5023

Hygrophorus (Camarophyllus)

(See painting) Nothing like it in Murril.

Pileus campanulate, moist not viscid; flesh thin; gills thick & waxy, free or nearly so of moderate width; stipe hollow, splitting & rolling inward, suggesting stem of Helvelloideae, white, moist, but not viscid; no trace of ring or volva.

Specimens examined:

Costa Rica, Cartago, Pejivalle, Alt. 650-820, Dodge & Thomas 4475

Hygrophorus nearest H.subpraetensis. M.

Pileus viscid,raw umber,expanded, margins slightly inrolled; gills waxy, distant, adnate, white; flesh 1 mm. thick on disc; stipe silky above, slightly furfuraceous below,white .

Specimens examined:

Costa Rica, Cartago, Pejivalle, Alt.650-820m., Dodge & Thomas 4474

Hygrophorus

Pileus old, dry when collected, up to 1.5 # 2 cm., smooth & shining (probably viscid), ochraceous-buff to ochraceous-tawny, hemispheric, margin inrolled; flesh very thick, white; gills adnate, decurrent by line, thick, subdistant, ochraceous-buff; stipe thick, fleshy, continuous with flesh, fibrillose below, evanescent ring, becoming shining, (viscid) 15 # 6 mm.

Specimens collected:

Costa Rica, San Jose, Finca Santa Rosa, Alt. 2580 m., Dodge 5227
? Simon: Waldeck 40m Dodge 7196

Hygrophorus (ea Hyg.)

Whole plant surrounded by thick gel, viscid, universal veil; pileus unexpanded when young, 2.2 cm.,sepia, shading to Isabella color; gills white,subdistant,waxy, adnate;stipe thick, floccose,pruinose above;gelatinous annulus,white, reticulate, striate with sepia, as gel dries, 4 cm # 7 mm.

Mossy banks under Quercus.

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt.2250m.,Dodge & Thomas 5137

Hygrophorus?

Pileus 3.2 cm., convex, viscid, very dark chestnut-brown, margin appendiculate with universal veil, which fringes as triangular patches 2 mm. long; gills thick, adnate, covered by partial veil which clings to edges of gills as pileus expands; stipe fleshy 5 cm # 7 mm., tapering below to a fusiform bulb, fibrous, tomentose from universal veil in lower half, shining, silky, above white.

Potrero south of house.

Specimen from dead wood at Laguna de Bonilla is very close to the above but is somewhat smaller stipe only 2.5 cm X 7 mm + only slight enlargement at base where attached to wood.

Specimens examined:

Costa Rica, San Jose, Rancho Redondo, Alt. 1160-1180 m., Dodge & Thomas 5136, 5138

Hygrophorus

(See painting)

Among moss protonemata on bank of roadside.

Specimens examined:

Costa Rica, Aljuela, between Itiquis & San Isidro, Alt.980-1500m.

Dodge & Valerio 4752

Hypholoma

Pileus depressed over stipe, apricot yellow, margin appendiculate ; flesh thick white over disc, very thin rest of way; gills adnexed, nearly free, cinnamon brown, broad, stipe fleshy hollow, irregularly compressed, light buff shading to russet, fibrous, subtomentose

Mossy log

Specimens examined:

Costa Rica: San Jose, Rancho Redondo, 2400 m, Dodge &Thomas 5407

Hypholoma

Pilei sespitose, hemispheric to convex, disc tawny shading to buffy yellow, 3 cm diam. smooth margin appendiculate; gills adnate, close, purplish brown, flesh thin; stipe buff yellow fibrillose almost squamose, 30 x 4 mm, light buff above, shading to tawny below.

Rotten log

Specimens examined

Costa Rica: San Jose?, Santa Rosa, Dodge & Thomas 5243

Hypholoma

Pileus convex to expanded up to 3 cm. hygrophanous disc apricot yellow to maize yellow moist margins martius yellow marbled some wet appendiculate gills adnexed close martius yellow narr w stipe 4cm. by 4mm. fibrillose furfuraceus martius yellow above shading to apricot yellow or darker

In soil potrero

Costa Rica San José Prov. Quay billos [illegible] 7-1[illegible]-[illegible]6
Dodge & Goerger

Hypholoma muscoroides?

Pileus expanded, finally flat or slightly depressed, 7cm. diameter, disc deep cinnamon (rather more yellow) covered by areolate, rimose remains of universal veil (veil & disc concolorous), color gradually becoming lighter to shining white, smooth margin (shortly striate, shallowly sulcate); remnants of universal veil in patches as in A. muscaria but thinner, slightly darker than surface of pileus which is obscurely innate fibrous to near margin

Gills sinuate, adnexed ventricose, color of Hypholoma sublateritium, crowded. Flesh 0.5cm. thick at disk, thinning gradually to margin Stipe up to 13cm. x o.8-o.9cm., subequal, silky white above, pale yellowish buff below. Annulus single ring about 3.5 cm. from top of stipe, white, soon colored purplish brown from spores.

General appearance of a slender, pale Amanita Muscaria var. americana Lange except for gills. Base somewhat bulbous, 1.8cm., volva adnate(if present), margin of volva cottony?

Canal Zone, Balboa

Bordan

6-15-36

Hypodendron

densely cespitose at base of stump, 2500 m

Pileus hemispheric to convex, margins inrolled, fibrillose scaly up to 13 cm wide, ochraceous orange blackening slightly where bruised; flesh spongy fleshy thick apricot yellow to light cadmium becoming dark brown slowly after wounding; gills adnate, decurrent by a line to ring; narrow, 8-9 mm, close yellow, edges stained ochraceous orange; stipe fleshy fibrous 18cm x 4 cm concolor with flesh, annulus reduced to thick scales; whole outer surface of stipe squarrose scaly, ochraceous orange to ochraceous tawny

Specimens examined

Costa Rica: San Jose, Rancho Redondo m, Dodge & Thomas 5253